magicolor® 7300 User's Guide

1800698-001A

Thank You

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Registering the Printer

Mail—Americas only: Fill out and send in the registration card enclosed in your shipment or downloaded from www.onlineregister.com/minolta-qms/

Internet—Follow the instructions on www.minolta-qms.com/register

or

Software Utilities **CD-ROM**—Follow the instructions on the CD-ROM.

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1

Software Installation

Software Utilities CD-ROM

If you followed all the steps in the *Installation Guide* that came with your printer, then the printer is properly set up, connected to your computer, plugged in, turned on, and ready to receive the system software, drivers, and utilities on the *Software Utilities* CD-ROM.

Put the CD-ROM in your computer's CD-ROM drive, and click on the MINOLTA-QMS AutoInstaller.

Drivers and PPDs

Manual installation instructions and additional information are included in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM *in case you need them.*

Drivers	Use/Benefit	Installation Instructions
Linux PPDs	These PostScript Printer Description (PPDs) files can be used with third-party Linux print filters that use PPDs.	Readme on the *Software Utilities* CD-ROM
Macintosh PPDs	These PPD files allow you to configure options such as memory and inform the computer what options and features are available.	Readme on the *Software Utilities* CD-ROM
PostScript 3 Drivers ■ Windows XP/ 2000 ■ Windows Me/98 ■ Windows NT4	These drivers give you access to all of the printer features and advanced layout	"Installing Printer Drivers and Utilities, Windows Environments—Auto-loading Installation" on page 4
Windows PPDs ■ Windows XP/ 2000 ■ Windows Me/98/95 ■ Windows NT4	These PPD files allow you to install the printer for a variety of platforms, drivers, and applications.	Readme on the *Software Utilities CD-ROM;* magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM

Utilities

Utilities	Use/Benefit	Installation Instructions
Crown Print Monitor+ for Windows	This Windows utility provides an efficient method for transporting print jobs directly to a MINOLTA-QMS printer via the TCP/IP protocol.	Readme on the *Software Utilities* CD-ROM
MINOLTA-QMS Download Manager	This utility provides the ability to download fonts and overlays to the printer's hard disk. It also allows you to download fonts to printer memory.	Readme on the *Software Utilities* CD-ROM
ICC/ICM Profiles	These color profiles provide support for host-based color management systems including Microsoft ICM 2 for Windows, Apple ColorSync, CorelDRAW, Kodak KCMS, Adobe Photoshop 5, and others.	Readme on the *Software Utilities* CD-ROM
Macintosh Installer	This installer automatically places all needed print-related components, such as a PostScript Printer Description (PPD) file, color profiles, screen fonts, and registration information, in the correct locations on your system and allows you to use your printer with Macintosh OS 9, or X (version 10.1 or higher).	Readme on the *Software Utilities* CD-ROM
NDPS Gateway	The NetWare interface allows Netware users to manage printers from a central location.	magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM
PageScope Light	Using your printer's built-in web pages and your Internet web browser, PageScope Light gives you access to all of your printer settings via TCP/IP Ethernet connections. *PageScope Light is built into your printer and is not on the Software Utilities CD-ROM.*	In chapter 5.3 in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM.
PageScope NDPS Gateway 2.0	This utility supports our printers as well as MINOLTA's digital copiers.	In chapter 3.6 in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM

Utilities	Use/Benefit	Installation Instructions
PageScope Net Care	This utility, available for the Windows platform and designed with administrators in mind, is a powerful tool allowing centralized management of network printers. Refer to the *PageScope Net Care* chapter in the *Reference Guide* or *PageScope Net Care Administrator's Manual*, both in PDF on the *Software Utilities CD-ROM.*	Readme on the *Software Utilities* CD-ROM; *PageScope Net Care Guide* in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM
PageScope Network Setup Utility	This utility provides basic configuration functions for network printers using TCP/IP and IPX protocols.	Readme on the *Software Utilities* CD-ROM; magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM
Pantone Tables	These tables allow you to match printed colors to screen colors. Provided for use with PostScript High resolution printing (600 x 600 dpi with contone imaging).	Readme on the *Software Utilities* CD-ROM
Status Monitor for Windows	This Windows utility provides information on the status of print jobs and alerts you if the printer is not functioning correctly. It works with printers connected via TCP/IP.	Readme on the *Software Utilities* CD-ROM

Installing Printer Drivers and Utilities, Windows Environments—Auto-loading Installation

1 Insert the *Software Utilities* CD-ROM in your CD-ROM drive.

If the CD-ROM does not automatically start up, double-click setup.exe in the root directory.

If the installation cannot be performed, even after the CD-ROM is specified, specify the location of the installer.

Windows NT does not support Plug & Play.
When you see the pop-up menu to install the driver from, select "Specify a Location".
Do not select "from CD-ROM" for the driver location.

2 In the first window, click Printer Setup.

3 Choose the method by which the PC and printer are connected.

4 Follow the instructions on the screen.

5 On the Printer Options screen, use the check boxes to print a test page, make the new printer your default, set printer properties and printing preferences.

6 On the last screen, choose Finish.

This returns you to the Main Menu screen where you can register your printer, review driver or utility documentation, or purchase supplies online. When you are finished, exit from the Installer.

7 When the system software installation is complete, remove the CD-ROM from your CD-ROM drive and store it in a safe place.

Installing Printer Drivers and Utilities, Windows Environments—Manual Installation

Manual installation instructions are included in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM. Refer to Section 2, “Installing Printer Software, Drivers, and PPDs” for complete instructions.

Arabic and Hebrew versions of the drivers and utilities must be installed manually.

Installing Printer Drivers and Utilities, Macintosh Environments

Some Notes to Consider

- In the following sections, we assume that you are installing the software for the first time.
- The current version of Macintosh OS X has limited support for PPD (PostScript Printer Description) files. Although MINOLTA-QMS printers can be used with Macintosh OS X, not all advanced printing features are available. Advanced printing features are still available under Macintosh OS 9.

You can connect to your printer by

- A crossover Ethernet cable
- Ethernet patch cables and an Ethernet hub

Macintosh—PPDs

MINOLTA-QMS developed a PostScript Printer Description (PPD) file for the magicolor 7300. This PPD works with the Macintosh Operating System's PostScript printer driver (LaserWriter) to provide support for the features on the magicolor 7300, such as print resolution and media sizes, and optional features such as duplexing.

Macintosh OS 9—PPDs and Utilities Installation

OS 9 Step 1. Software Installation

a Insert the *Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.

If the CD-ROM window does not appear, double-click the MINOLTA-QMS CD-ROM icon on your Macintosh desktop.

b Double-click the Install icon.

c Follow the instructions on the screen to install the magicolor 7300 PPD and utilities.

d After the PPD and utilities installation is complete, choose Quit.

e When the system software installation is complete, remove the CD-ROM from your CD-ROM drive and store it in a safe place.

OS 9 Step 2. Creating a Desktop Printer

EtherTalk Connection

a You can connect via Ethernet in either of two ways:

- Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.
- Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.

b Open the Chooser and select LaserWriter.

c When your printer boots up, it finds a default zone.

d Choose Create and then Set-Up.

LPR Connection

a You can connect via Ethernet in either of two ways:

- Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.
- Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.

b Locate the Desktop Printer Utility.

If you cannot locate it on your Macintosh hard disk, it can be found on your Macintosh's system CD-ROM.

c Select Printer (LPR), and choose OK.

d Type in the IP address and use the same address for the Queue name. Click OK.

e Choose Create.

f Name the printer with the IP address or a descriptive name.

NetWare and NDPS

For NetWare 5, NetWare 6, and NDPS installation, refer to the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM. Section 2 of the *Reference Guide*, "Installing Printer Software, Drivers, & PPDs," includes basic information about these interfaces as well as instruction for installation.

For information about connecting using earlier versions of NetWare, check the "24-Hour Online Help" at www.minolta-qms.com.

Linux

For Linux PPD and PDQ installation, refer to the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM. Section 2 of the *Reference Guide*, “Installing Printer Software, Drivers, & PPDs,” includes basic information about PDQ, XPDQ, CUPS, and XPP connections and instructions for installing them.

2

Using Media

Introduction

This chapter provides information on handling, selecting, loading, and storing media.

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Media Specifications

Media Size	Inches	Milli-meters	Feed Direction	Tray*	Auto-duplex ****	Driver Mode	Weight
A3	11.7 x 16.5	297 x 420	SEF	1–4	Yes	Plain Paper (includes recycled paper and letterhead and memo paper)	64–90 g/m^2
				M	No		
A4	8.2 x 11.7	210 x 297	LEF	1–4	Yes		
				M	No		
A5	5.9 x 8.3	148 x 210	LEF	1	Yes		
				M	No		
B4	10.10 x 14.3	364 x 257	SEF	1–4	Yes		
				M	No		
B5 (JIS)	7.2 x 10.1	182 x 257	LEF	1–4	Yes		
				M	No		
Custom Sizes, Minimum	3.5 x 5.8	90 x 148	SEF or LEF (depending on dimen-sions)	1	**		
				M	No		
Custom Sizes, Maximum	12.2 x 18.0	311x 457		1	No		
	11.6 x 35.4	297 x 900		M	No		
Executive	7.25 x 10.5	184 x 267	LEF	1	Yes		
				M	No		
Folio (A4 Plus)	8.27 x 13.0	210 x 330	SEF	1	Yes		
				M	No		
Government Letter	8.0 x 10.5	203 x 267	LEF	1	Yes		
				M	No		
Government Legal	8.5 x 13	216 x 330	SEF	1	Yes		
				M	No		
Kai 8 (Chinese 8K)	12.24 x 14.57	260 x 370	SEF	1	Yes		
				M	No		
Kai 16 (Chinese 16K)	7.28 x 10.24	185 x 260	SEF	1	Yes		
				M	No		
Kai 32 (Chinese 32K)	5.12 x 7.28	130 x 185	SEF	1	Yes		
				M	No		
Legal	8.5 x 14	216 x 356	SEF	1–4	Yes		
				M	No		
Letter	8.5 x 11.0	216 x 279	LEF	1–4	Yes		
				M	No		
Oversized	12.25 x 18	311 x 457	SEF	1	No		
SP Folio	8.5 x 12.69	216 x 322	SEF	1	Yes		
				M	No		
Statement	5.5 x 8.5	140 x 216	SEF	1	Yes		
				M	No		
8 x 10	8 x 10	203 x 254	LEF	1	Yes		
				M	No		
Foolscap	8 x 13	203 x 330	SEF	1	Yes		
				M	No		
11 x 17	11 x 17	279 x 432	SEF	1–4	Yes		
				M	No		
12 x 18	12 x 18	305 x 457	SEF	1	No		

Media Size	Inches	Milli-meters	Feed Direction	Tray*	Auto-duplex ****	Driver Mode	Weight
Label (A4)	8.2 x 11.7	210 x 297	LEF	1, M	No	Label	Use only approved media
Label (Letter)	8.5 x 11.0	216 x 279					
Label (other)	Varies						
Transparency (A4)	8.2 x 11.7	210 x 297	LEF	1, M	No	Trans-parency (OHP)	
Transparency (Letter)	8.5 x 11.0	216 x 279					
Postcard	3.94 x 5.83	100 x 148	SEF	1, M	No	Postcard	
Envelope B5 (ISO)	6.93 x 9.8	176 x 250	SEF	1, M	No	Envelope	
Envelope C5	6.37 x 9	162 x 229	SEF	1, M			
Envelope C6	4.49 x 6.38	114 x 162	SEF	1, M			
Envelope Commercial #10	4.13 x 9.5	105 x 241	SEF	1, M			
Envelope International DL	4.33 x 8.66	110 x 220	SEF	1, M			
Japanese Envelope Chokei #3 (Chou 3)	4.72 x 9.25	120 x 235	SEF	1, M			
Japanese Envelope Chokei #4 (Chou 4)	3.54 x 8.07	90 x 205	SEF	1, M			
Envelope Monarch	3.88 x 7.5	98 x 191	SEF	1, M			
Thick Stock	Varies		Varies	1, M	***	Thick Stock	91–210 g/m^2

Notes: LEF = Long-edge feed; SEF = Short-edge feed

* Trays: 1 = Universal; 2 = Standard; 3 and 4 = Optional lower feeder units; M = Optional manual feed (with duplex feed unit installed)

** Only supported for plain paper with a length equalor less than 17 inch (432 mm) and a width less than 11.7 inch (297 mm).

*** Do not autoduplex thick stock 91–210 g/m^2

**** Autoduplexing plain paper up to 17-24 lb (64-90 g/m^2) supported only from Trays 1–4 with optional duplex unit and manual feed tray installed and enabled. Autoduplexing is not supported from the manual feed tray.

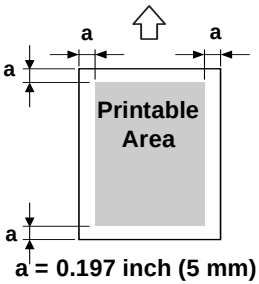
What amount of media can I use?

Attention

Do not allow media to go above the fill limit mark inside the tray or the media may not be fed correctly.

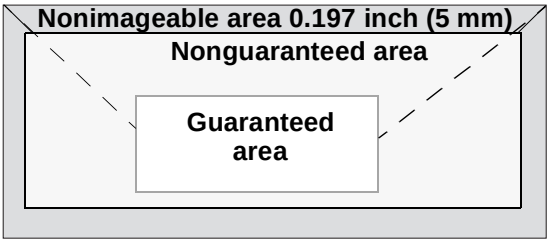
What Is the guaranteed imageable (printable) area?

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.



This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The guaranteed imageable (printable) area for all media sizes is the page size minus 0.197 inch (5 mm) from all edges of the media, except for media (such as custom media) with a width of 12.25 inch (311 mm), which is 0.275 inch (7 mm).

Envelopes also have a nonguaranteed flap area that varies with envelope type.



How do I set page margins?

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

How can I change the image alignment?

If, for any reason, you need to change the image alignment, you can do so in two different ways.

- Adjust the margins or page size through your application (recommended method).
- Use the printer's control panel (`Quality/Tray Alignment` menu).

Media Types

General Considerations about Media

For best results, use media that is

- Suitable for plain-paper laser printers, such as standard or recycled office paper
- Stored on a flat, level surface in its original wrapper

Before purchasing a large quantity or special media, perform a trial print with the same media and check the print quality.

Attention

Use only MINOLTA-QMS-approved media. Using unsupported media such as inkjet paper will result in damaging the printer and in voiding your warranty.

Check www.minolta-qms.com (click on "24-Hour Online Help") for currently approved media. To order approved transparency media, go to www.q-shop.com.

Unsupported Media

Do not use media that is

- Dusty
- Coated with a processed surface (such as digitally gloss-coated media or colored paper that has been treated)
- Iron-on transfer (heat-sensitive paper, heat-pressure paper or heat-press transfer paper)
- Cold water transfer
- Pressure-sensitive
- Carbon-backed
- Designed specifically for inkjet printers (such as superfine paper, glossy paper, glossy film, and inkjet postcards)
- Already printed on with one of the following:
  - An inkjet printer
  - A heat-transfer printer
  - Another printer or fax machine
- Unapproved iron-on transfer material

- Wet (or damp)

  Keep media between 35% and 85% relative humidity. Toner does not adhere well to moist or wet paper.
- Layered
- Adhesive-coated
- Folded, creased, curled, embossed, warped or wrinkled
- Perforated, three-hole-punched or torn
- Too slick, too coarse or excessively textured
- Of different textures (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt or that is too luminous
- Heat-sensitive or cannot withstand the fusing temperature (392° F/ 200° C)
- Irregularly shaped (not rectangular or not cut at right angles)
- Bound with glue, tape, paper clips, staples, ribbons, hooks or buttons
- Acidic
- Not approved

How do I select the media type?

- **Control Panel Menu**—In the printer's `Paper/Input Tray/Tray1` Control menu, select the appropriate media type.
- **Printer Driver** (Recommended)—The driver setting overrides any printer setting.

Plain or Recycled Paper, Letterhead, Memo Media

Capacity	**Tray 1 (universal tray)**	Up to 250 sheets of 22 lb bond (80 g/m^2) paper (letter/A4); capacity for other weights and sizes varies accordingly
	Tray 2 (standard tray)	Up to 500 sheets of 22 lb bond (80 g/m^2) paper (letter/A4 only)
	Trays 3–4 (optional lower feeder unit trays)	Up to 500 sheets of 22 lb bond (80 g/m^2) paper (letter/A4 only) each
	Manual Feed Tray*	1 sheet at a time
Orientation **	**Trays 1–4**	Face up
	Manual Feed Tray	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media.	
Driver Mode	Plain paper	
Weight	17–24 lb bond (64–90 g/m²)	
Auto-duplexing	**Trays 1–4**	See page 11 for supported sizes
	Manual Feed Tray	Not supported
Notes:	* Optional manual feed tray supported only with duplex option attached. ** Letterhead toward the printer.	

Envelopes

Capacity	**Tray 1**	Up to 50 envelopes, depending on their thickness
	Trays 2–4	Not supported
	Manual Feed Tray	1 envelope at a time
Orientation	**Tray 1**	Face up
	Manual Feed Tray	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media.	
Driver Mode	Envelope	
Duplexing	Not supported	

Use envelopes that are

- Common office envelopes approved for laser printing
- Made with diagonal joints, sharp folds and edges, and ordinary gummed flaps

  Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.
- Dry
- To be printed on the front address side only

Do not use envelopes that have

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset discolor, or emit dangerous fumes
- Been presealed

Labels

A sheet of labels consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

Capacity	**Tray 1**	Up to 50 label sheets, depending on their thickness
	Trays 2–4	Not supported
	Manual Feed Tray	One sheet at a time
Orientation	**Trays 1–4**	Face up
	Manual Feed Tray	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media.	
Driver Mode	Labels	
Duplexing	Not supported	

Use label sheets that are

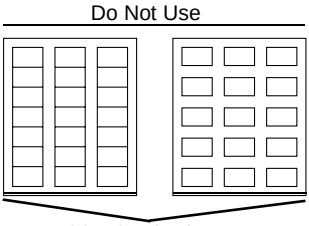
- Recommended for laser printers
- Letter or A4 size (adhesive label stock)

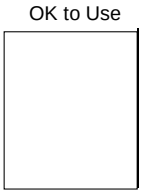
Do not use label sheets that

- Have labels that easily peel off
- Have the backing sheets that have peeled away or have exposed adhesive.

  Labels may stick to the fuser, causing them to peel off and media jams to occur.

- Are precut or perforated





Full-page labels (uncut)

Postcards

Capacity	**Tray 1**	Up to 50 postcards, depending on their thickness
	Trays 2–4	Not supported
	Manual Feed Tray	One sheet at a time
Orientation	**Tray 1**	Face up
	Manual Feed Tray	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media.	
Driver Mode	Postcard side1 Postcard side2	
Weight	17–43 lb (64–163 g/m²)	
Duplexing	Autoduplexing not supported. Manually duplexing supported only Manual Feed Tray. To manually duplex, print the front side of the postcard in driver mode Postcard side1, flip it over, and print the back side (address side of postcard) in driver mode Postcard side2.	

Use postcards that are

- Recommended for laser printers

Do not use postcards that are

- Coated
- Designed for inkjet printers
- Precut or perforated
- Warped or bent
- Preprinted or multicolored (may result in media jams)

Thick Stock (Also Known as Cardstock)

Capacity	**Tray 1**	Up to 50 sheets, depending on their thickness
	Trays 2–4	Not supported
	Manual Feed Tray*	1 sheet at a time
Orientation	**Tray 1**	Face up
	Manual Feed Tray*	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media.	
Driver Mode	Thick stock	
Weight	25–42 lb bond (91–210 g/m²)	
Duplexing	Not supported	
Notes	42 lb (210 g/m²) bond is also referred to as 90 lb index paper. *Optional manual feed tray supported only with duplex option attached even though duplexing thick stock is not approved.	

Do not use thick stock that is

- Mixed with any other media in the media trays. This will cause media jams.

Transparencies

Attention

Using unsupported transparency media may damage the printer and void your warranty. Check www.minolta-qms.com for currently approved media. To order approved transparency media, go to www.q-shop.com.

Capacity	**Tray 1**	Up to 50 transparencies, depending on their thickness
	Trays 2–4	Not supported
	Manual Feed Tray	1 transparency at a time
Orientation	**Tray 1**	Face up
	Manual Feed Tray	Face down
Type	Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media. To order approved transparency media, go to www.q-shop.com.	
Driver Mode	Transparency	
Duplexing	Not supported	

Use transparencies that are

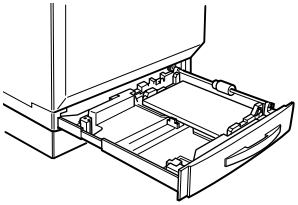
- Approved by MINOLTA-QMS for color laser printers
- Have as little static electricity as possible

Do not use transparencies that

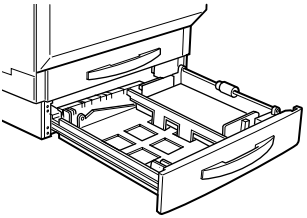
- Are designed for inkjet printers
- Are for oil-fixing

Loading Media

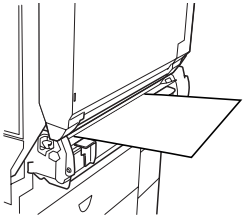
Tray 1: Universal media tray



Trays 2–4: Standard media trays



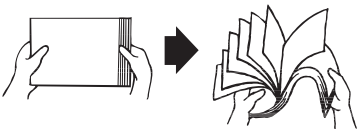
Manual feed tray



How do I prepare media?

Do not unwrap paper on top of the printer, as this might cause paper particles to fall into the printer.

If you are using paper, remove the top and bottom sheets of a ream of paper. Fan the stack of media to prevent static buildup before inserting it in trays 1–4.



Do not fan transparencies.

Attention

Although this printer was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

Do not mix media of different sizes, types, and/or weights, as this will cause media jams.

When loading additional media or refilling media, remove any media remaining in the tray, place it on top of the new media of the same size and type, and then align the media in the stack before loading it into the tray. We recommend refilling the media only after all of the media in the tray has been used; otherwise, a media jam may occur.

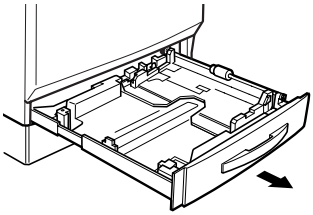
Tray 1 (Universal Media Tray)

All supported media sizes and types except media over 18 inch (457.2 mm) long can be printed from Tray 1. For information about media orientation, refer to “Media Specifications” on page 11.

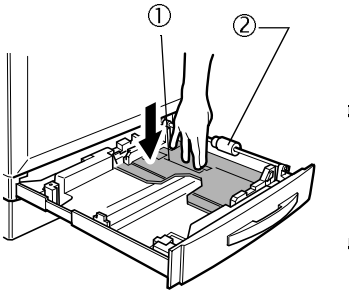
Plain and Recycled Paper, Letterhead, and Memo Media

1 Slide out Tray 1.

If you already have media in Tray 1 and want to change it, remove the media from Tray 1.



2 Press down on the media-lifting plate ① until it locks.

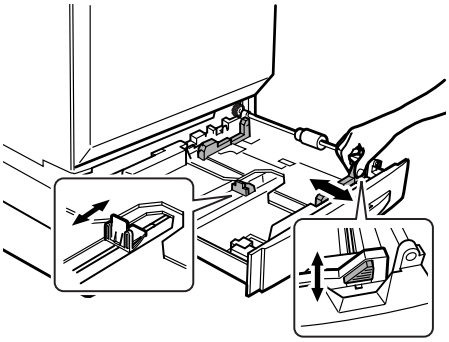


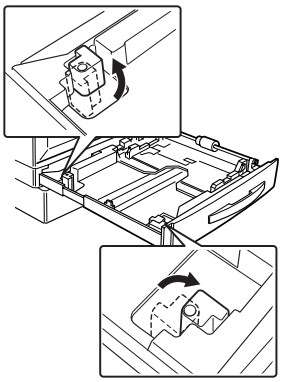
Attention

Be careful not to touch the media pickup roller ② with your hands. If the roller has been touched, wipe it with a dry cloth.

3 Squeeze both media guides to slide them to fit the media size to be loaded.

For 12.25 x 18 inch (311 x 457 mm) media, adjust the trailing-edge media guides.

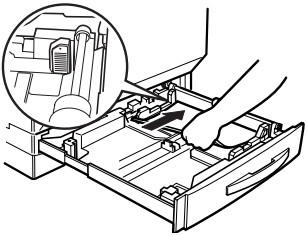




4 Align the edges of up to 250 sheets of paper, and then load it face up.

If the media is curled, flatten it before loading it.

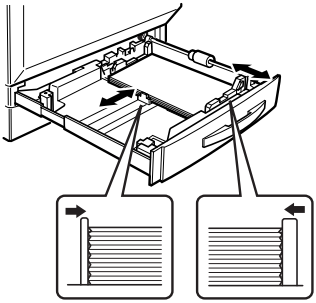
Often, an arrow on the media package label indicates the face-up (print) side of the media.



If you're loading letterhead, load the letterhead or logo side oriented toward the back side of the tray.

Do not load media above the ▼ media limit mark.

5 Slide the media guides against the edges of the media.



Attention

Always adjust the media guides after inserting media. Guides that are not properly adjusted can cause poor print quality, media jams, or printer damage.

6 Close Tray 1.

7 In the printer driver, select Plain Paper and the appropriate media size.

If you're using custom-size media, set the printer for custom-sized media in the printer driver.

8 Print the job.

Envelopes

Print on the envelope front (address side) only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

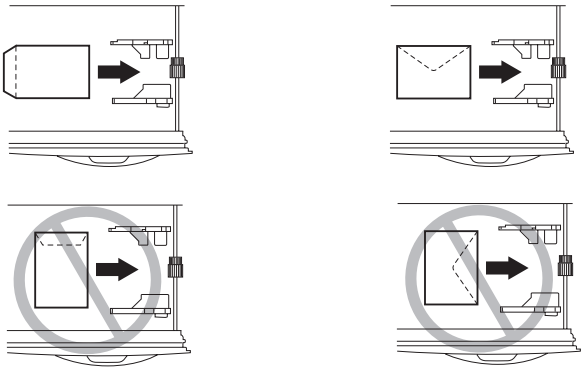
1 Flex a stack (including the edges) of up to 50 envelopes to remove any stiffness.

2 Correct any bent corners, and then tap the envelopes on a flat surface to align them.

3 Place the envelopes on a flat surface, and press them down to flatten them and make sure that all air is removed.

Make sure that the folds of the flaps are firmly pressed; otherwise, the envelopes may become wrinkled or a media jam may occur.

4 In Tray 1, load up to 50 envelopes face up (flap side down), short edge first.



5 Adjust the media guides.

Make sure the guides are snug enough to keep the envelopes straight, but not so tight that they buckle the envelopes.

6 In the printer driver, select Envelope and the appropriate size.

7 Print the job.

Print a single envelope to check the orientation before printing multiple copies.

8 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.

Labels

You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous printing and print one sheet at a time.

Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. Check your application documentation for other information on printing labels.

1 Load up to 50 label sheets face up, long edge first.

2 Adjust the media guides.

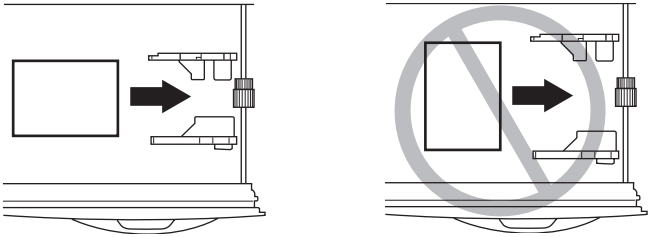
3 In the printer driver, select Label and the appropriate size.

4 Print the job.

Postcards

Format postcard data within your application. Try printing your data on a plain sheet of paper first to check placement.

1 Load up to 50 postcards face up with the short edge first.



2 Adjust the media guides.

3 In the printer driver, select Postcard side1 and the appropriate size.

4 Print the postcards.

5 You cannot autoduplex postcards. If you want to manually duplex, load the postcards blank side down in Manual feed tray. In the driver, select Postcard side2.

6 Print the second side.

Thick Stock

Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

1 Load up to 50 thick stock sheets face up.

2 Adjust the media guides.

3 In the printer driver, select Thick Stock and the appropriate size.

4 Print the job.

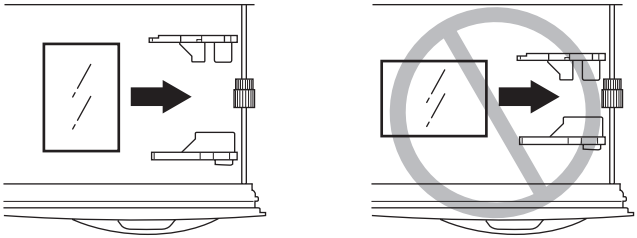
Transparencies

Format the information to be printed on the transparencies within your application. Try printing your data on a plain sheet of paper first to check placement.

If you touch the face of the transparencies with your bare hands, print quality may be affected. Do not fan transparency media before loading it. Resulting static electricity may cause printing errors.

You can print transparencies continuously. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. If you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets (Tray 1) or only 1 sheet at a time (manual feed tray).

1 Load up to 50 transparencies face up, long edge first.



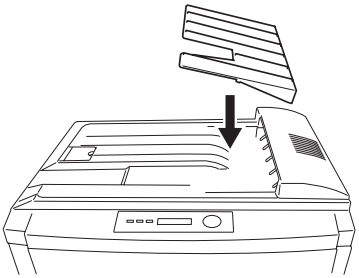
2 Adjust the media guides to the width of the transparency.

3 In the printer driver, select OHP (Transparency) and the appropriate size.

4 Print the job.

Remove transparencies as soon as possible from the output tray to avoid static buildup.

Transparencies may be bent in the output tray, depending on the type of transparency and the operating environment. To improve stacking of transparencies, put the media output tray extension in place before printing.



Trays 2–4

Only plain, recycled, letterhead, or memo paper in sizes A3, A4, B4, B5 (JIS), 11 x 17, legal, and letter can be printed from Trays 2–4. If you want to use media other than plain paper, use Tray 1or the manual feed tray.

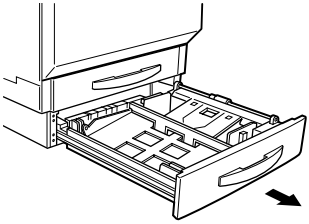
We recommend replenishing the media only after all of the media in the tray has been used; otherwise, a media jam may occur.

Follow the instructions below to load Tray 2. Trays 3 and 4 are loaded the same way.

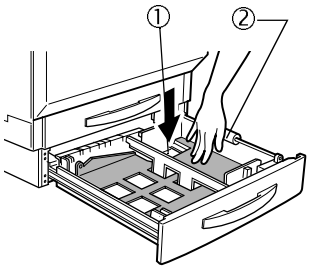
1 In the printer driver, choose the tray you want to print from, or choose Automatically Select.

2 Slide out the tray.

When loading additional media, remove any media remaining in the tray, place it on top of the new media of the same size and type, and then align the media in the stack carefully before loading it into the tray.



3 Press down on the media-lifting plate ① until it locks.

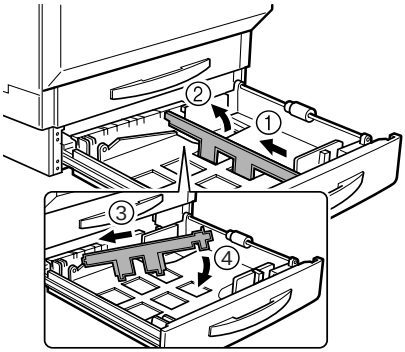


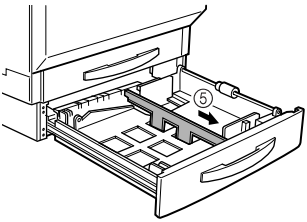
Attention

Be careful not to touch the media pickup roller ② with your hands. If the roller has been touched, wipe it with a dry cloth.

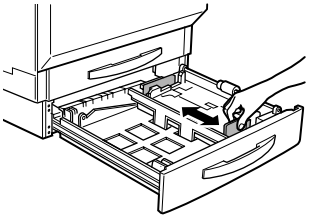
For information about media orientation, refer to "Media Specifications" on page 11.

4 Remove the long media guide, if necessary, and then reinstall it for the media size to be loaded.



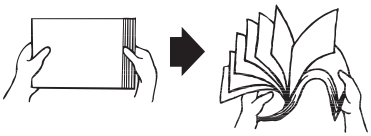


5 Squeeze the front media guide to slide it to fit the media size to be loaded.



6 Fan a stack of approximately 500 sheets of media.

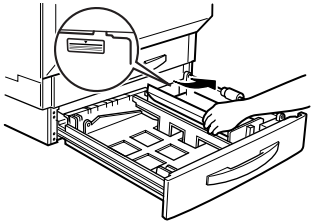
If the media is curled, flatten it before loading it.



7 Align the edges of the media, and then load it face up.

Often, an arrow on the package label indicates the face-up (print) side.

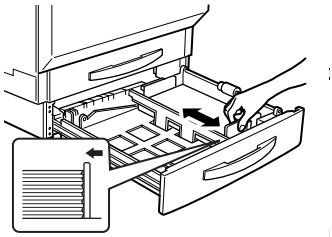
Do not load media above the ▼ media limit mark.



8 Slide the media guides against the edges of the loaded media.

Attention

Always adjust the media guide after inserting the media. A guide that is not properly adjusted can cause poor print quality, media jams, or printer damage.



9 Close the tray.

If you have removed the tray from the printer, slightly tilt up the tray to insert it into the rails to slide it back in.

10 In the printer driver, select Plain Paper and the appropriate size.

11 Print the job.

Manual Feed Tray

Attention

The manual feed tray is part of the duplex unit. You must have the duplex unit installed, whether or not you are duplexing your page.

All supported media sizes and types up to 35.4 inch (900 mm) long can be printed from the manual feed tray. Use the manual feed tray if you want to print on special media, or if you want to print on media not currently loaded into Trays 1–4.

When printing using the manual feed tray, insert only one sheet at a time. The side facing down will be printed.

1 Adjust the media guides for the type of media you are using.

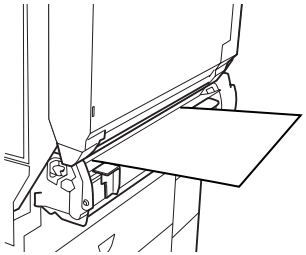
2 In the printer driver, choose the Manual Feed Tray, and the appropriate media type and size.

3 Print the job.

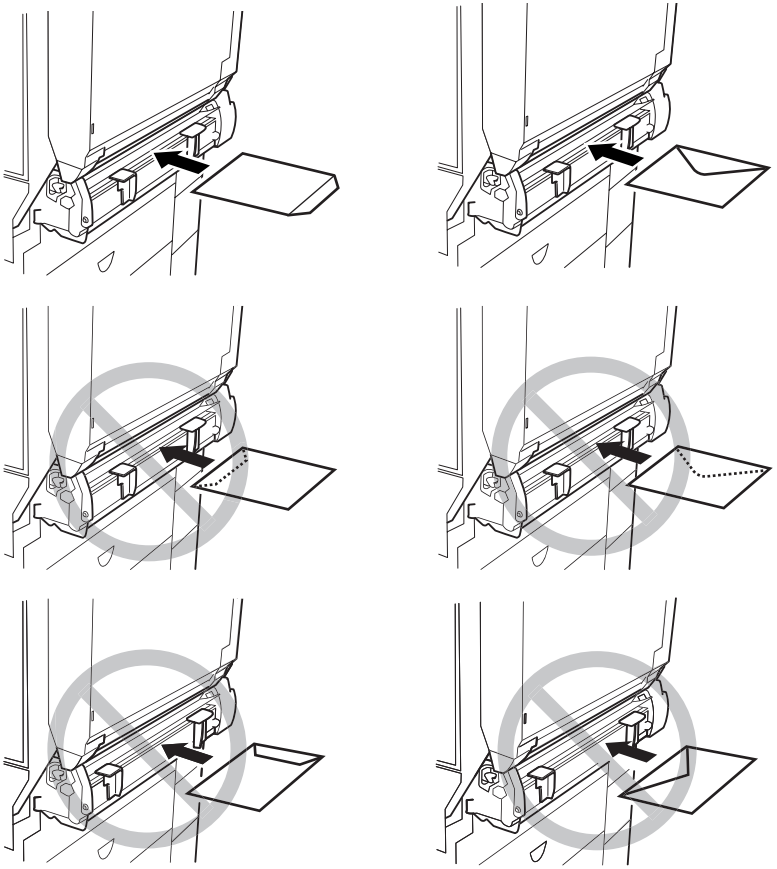
For information about media orientation, refer to “Media Specifications” .

If you don’t add media in the manual feed tray within the job timeout period, the job is taken out of the queue and does not print.

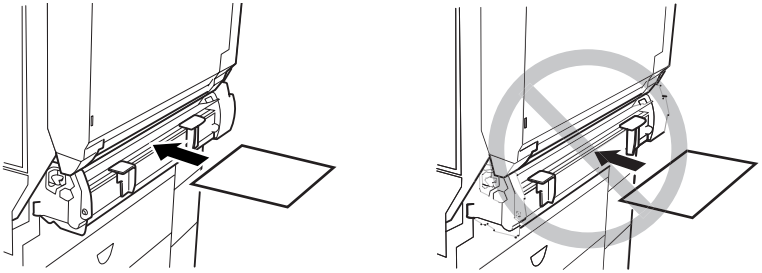
- Plain paper



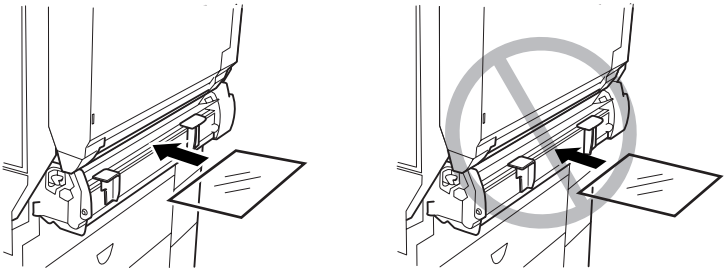
- Envelopes



- Postcards



Transparencies



Transparencies may be bent in the output tray, depending on the type of transparency and the operating environment. To improve stacking of transparencies, put the media output tray extension in place before printing

Custom-size Media

When you use media that is not a standard size (see “Media Specifications” on page 11), you need to configure the printer driver for the custom size. Otherwise, your print job may be cut short or misaligned on the page.

To make custom page sizes work correctly, you need to change the printer’s settings in the MINOLTA-QMS printer driver.

Default page sizes are set in inches on 110V printers and in millimeters on 220V printers.

- When you set custom page sizes in 110V printers, the two digits on the right are always decimal places. For example, set 8.5 inches as 850.
- When you set custom page sizes in 220V printers, there are no decimal places. For example, set 78.2 millimeters as 78.

The more accurate your measurements, the better your print job is aligned.

Duplexing

Duplex (2-sided) printing can be done manually or, if you have the duplex option installed and selected, it can be done automatically.

Select paper that is opaque enough to block out what’s printed on one side from being seen on the other side. For best results, print a small quantity to make sure the paper and print quality are acceptable.

Manual Duplexing

Media jams may occur if the printed sheet(s) are not reinserted entirely flat.

If you do not have a duplex option installed, the Booklet setting should always be turned off.

Manual Duplexing Postcard from the Manual Feed Tray

1. In the printer driver, select Postcard side 1 to print the front side of the postcard.
2. Remove the postcard from the output tray and place it back into Manual Feed Tray, blank side down.
3. In the printer driver, select Postcard side 2 to print the back side (address side) of the postcard.

Autoduplexing

Attention

Only plain paper up to 17-24 lb (64-90 g/m²), with a length equal or less than 17 inch (432 mm), and with a width less than 11.7 inch (297 mm) can be autoduplexed.

Memory Requirements

Your printer comes configured with 128 MB of RAM. Duplex printing can be done automatically with a duplex unit and manual feed tray and enough memory installed, and with the duplex option selected in the printer. Most print jobs will print with 128 MB of RAM, but may not print at the desired resolution.

- You need at least 256 (128 MB optional memory is installed) MB of RAM to print color duplex jobs at the PostScript High resolution. You may be able to duplex low-coverage business documents without graphics with 128 MB of RAM.
- You may need extra RAM to duplex print jobs that have:
  - Very high coverage of text and images
  - Large graphics
- Additional memory can be added up to a total of 512 MB.

Autoduplexing from Trays 1–4

To autoduplex, the duplexer must be physically installed on the printer and identified as an installed option in the printer driver. Otherwise, the print job will print as simplex even if you select duplex.

In autoduplexing, the back side is printed first and the front side is printed last.

The duplex layout Long Edge creates a document that flips horizontally as in a loose-leaf notebook; Short Edge creates a document that flips vertically, as on a clipboard. Simplex (or None) prints only on the front face of the page.

Windows

Use the printer driver to configure the printer for duplex printing.

1 In the printer driver's Settings tab, select Optional Duplexer in the Available Options box.

2 Click Add.

The Optional Duplexer appears in the Installed Options box and duplex printing options are available in the printer driver and in your application's print dialog box.

3 Load the media print-side up.

4 Set the duplex layout in the driver.

5 Click OK.

Macintosh

You can configure the duplex option when you first set up your printer, or you can add it later to your desktop printer configuration:

1 Select your desktop printer.

2 From the Printing menu, select Change Setup...

3 Select the Optional Duplexer from the Change drop-down list.

4 Select Installed from the To drop-down list.

5 Click OK.

6 Load the media print-side up.

7 Set the duplex layout in the driver.

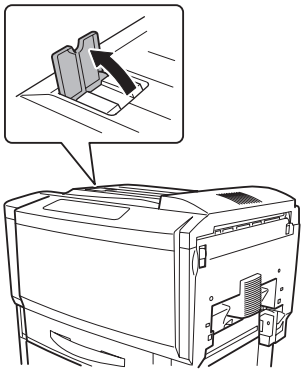
8 Click OK.

When you select File/Print, the Print on Both Sides option is now available in the Layout dialog box.

Output Tray

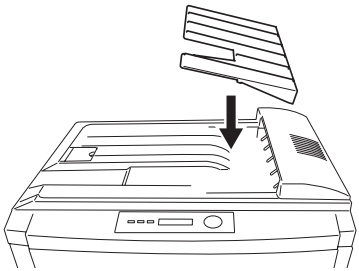
All media is output to the output tray on top of the printer. An `OUTPUT FULL/ REMOVE MEDIA` message appears in the message window when the face-down output tray has reached its capacity.

Depending on the media type and the conditions of the operating environment, media may fall out of the output tray. If this occurs, use the media stopper.



Remove transparencies as soon as possible from the output tray to avoid static buildup.

Transparencies may be bent in the output tray, depending on the type of transparency and the operating environment. To improve stacking of transparencies, put the media output tray extension in place before printing.



Media Storage

How do I store media?

- Keep media on a flat, level surface in its original wrapper until it is time to load it.
- If media has been removed from its original wrapper, place it in a plastic bag and store in a cool, dark place.
- Avoid moisture, excess humidity, direct sunlight, excess heat, and dust.
- Avoid leaning it against other objects or placing it in an upright position.

Before using stored media, do a trial printing and check print quality.

Additional Assistance

Where can I order MINOLTA-QMS-approved media or get more information?

Check Check www.minolta-qms.com (click on “24-Hour Online Help”) for currently approved media. for currently approved media. To order approved transparency media, go to www.q-shop.com or your local retailer.

See the *Service & Support Guide* on the *Documentation* CD-ROM for a list of sources of service and support in many areas of the world. The most up-to-date information globally can be found at www.minolta-qms.com.

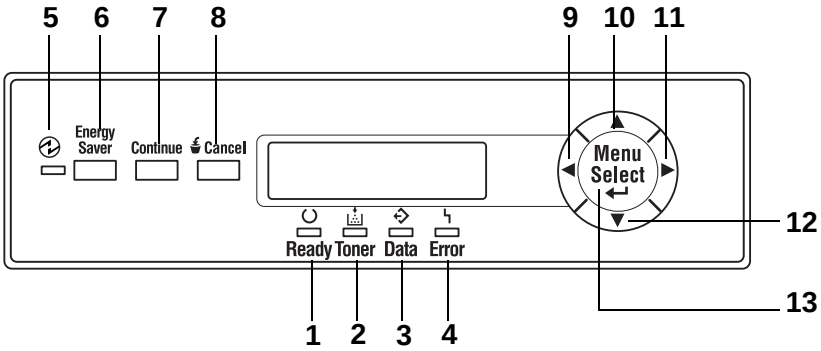
3

Working with the Printer

About the Control Panel

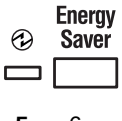
The control panel, located on the top of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.

- Five indicators (LEDs) provide printer status information.
- A message window displays status and configuration information.
- Eight keys allow you to control the printer configuration through access to frequently used printer functions.

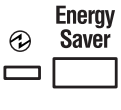


Control Panel LED Indicators

Number	LED Indicator	Off	On
1	Ready	The printer is not ready to accept data.	The printer is ready to accept data.
2	Toner	No problem.	**Solid:** The toner cartridge is near empty or the print unit is nearing the end of its life. **Flashing:** The toner cartridge is empty, or the print unit has reached the end of its life. Replace the toner cartridge with a new one of the same type. (Accompanied by a status message in the message window.)

Number	LED Indicator	Off	On
3		The printer is not receiving data.	**Flashing:** Indicates that the printer is receiving data or is printing. **Lit:** Indicates that print data remains in the printer, for example, after printing was stopped due to an error. (Accompanied by a status message in the message window.)
4		No problem.	The printer requires the operator's attention. (Accompanied by a status message in the message window.)
5 (see also 6 below)		The printer is in normal mode.	The printer is in Sleep mode. In stand-by, light sleep or deep sleep mode, the indicator lights up. In deep sleep mode, the indicators and keys (except the Energy Saver key) of the control panel are disabled.

Control Panel Keys

Number	Key	Function
6 (see also 5 above)	 5 **6**	■ Press this key when the printer is in stand-by mode, light sleep mode or deep sleep mode to start warming up the printer and return it to normal mode. If the printer was in deep sleep mode, the printer also wakes up the control panel. ■ Hold down this key for two seconds while the printer is in it normal operating mode to switch the printer to deep sleep mode, regardless of the current mode. However, the printer can only enter deep sleep mode if the printer status is Ready. If the Data indicator is lit or flashing or if the menu is displayed, the printer cannot be set to deep sleep mode when this key is pressed.
7	Continue	■ Press this key to exit the configuration menu. ■ If a message appears asking for confirmation (YES/NO) to perform some operations, press this key to cancel the operation (to select “NO”). (The instructions for using this key appear in the message window.)
8	Cancel	■ Press this key to allow you to cancel your print job. ■ While specifying settings, press this key to quit entering numbers or letters (such as the IP address). ■ If a message appears asking for confirmation (YES/NO) to perform some operations, press this key to perform the operation (to select “YES”). (The instructions for using this key appear in the message window.)
9	◀	■ Press this key to move left in the menu structure. ■ Press this key to move left through the scrollable menu selections when the selections are whole words, not characters.

Number	Key	Function
10	▲	■ Press this key to move up in the menu structure. ■ If within a selectable menu choice that can be changed character by character, press this key to scroll upward through the available characters. ■ While typing in characters (IP address) to specify settings, hold down this key to quickly scan through the characters in increments of a specified number of characters.
11	▶	■ Press this key to move right in the menu structure. ■ Press this key to move right through the scrollable menu selections when selections are whole words, not characters.
12	▼	■ Press this key to move down in the menu structure. ■ If within a selectable menu choice that can be changed character by character, press this key to scroll downward through the available characters. ■ While typing in characters (IP address) to specify settings, hold down this key to quickly scan through the characters in increments of a specified number of characters.
13	Menu Select ↵	■ Press this key to initially enter the menu structure. ■ If within the menu structure and on a menu level, press this key to move down in the menu structure. ■ If within the menu structure and on a selectable item, press this key to select the displayed choice (no matter what position the cursor is in). When this is done, the selected choice is written to the non-volatile memory.

How do I return to READY from the configuration menu?

There are three ways:

- Press the Continue key.
- Press the Up arrow twice from the main menu.
- The printer automatically returns to READY if no key is pressed for two minutes.

Canceling Print Jobs

You can cancel the print job that is currently being processed or printed.

1 Press the Cancel key. The following message window displays:

YES: PRESS CANCEL NO: PRESS CONT.

2 Press the Cancel key to cancel the job. The message window displays:

CANCELING JOB

Printer Menu Overview

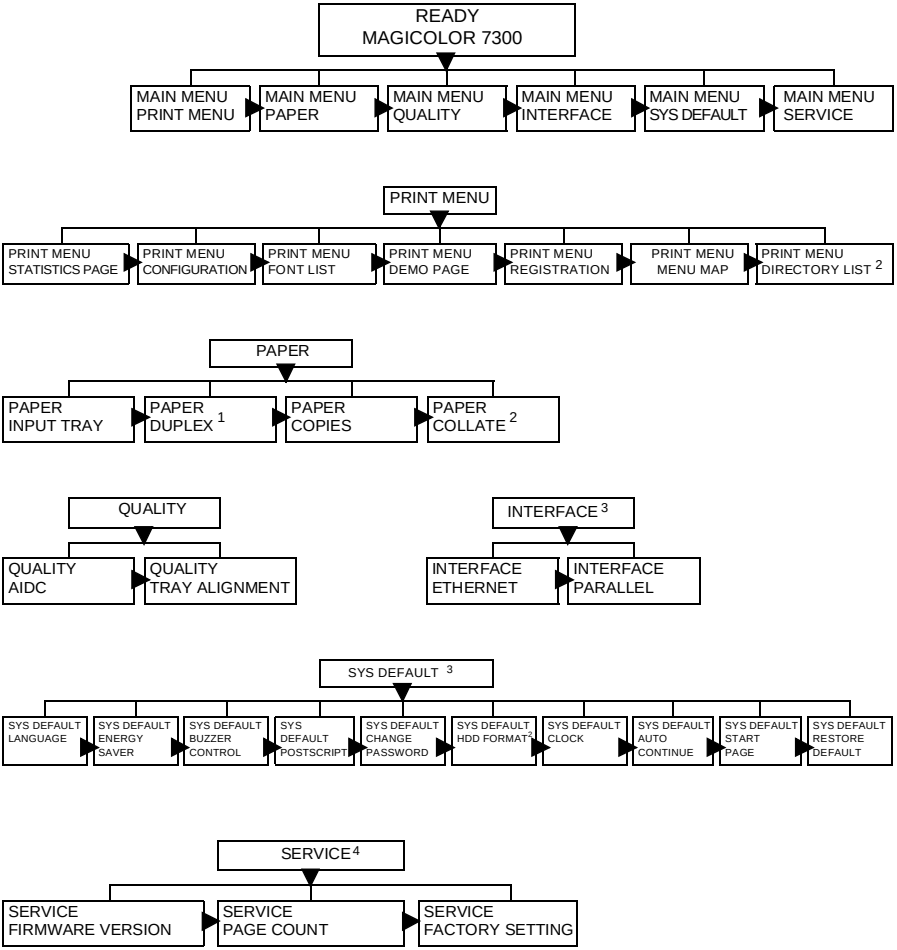
Menu Overview

Your printer has a comprehensive but easy-to-use menu system that allows you to change settings so they meet your print job's requirements. All routine printing tasks can be handled at the printer control panel through the printer's configuration menu. The printer can also be configured through PageScope, PageScope Light, and SNMP.

Complete information on the printer's configuration menu is included in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM.

When the printer is ready to accept print jobs, the control panel message window shows:

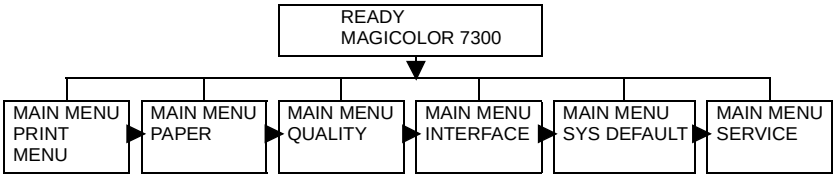
READY MAGICOLOR 7300



Notes: (1) Displays only when an optional duplex unit is installed.
(2) Displays only when an optional hard disk is installed.
(3) If a password has been set, the password must be entered in order to access this menu. For details on setting a password, refer to the *Reference Guide* on the *Documentation* CD-ROM.
(4) This menu is used by service personnel.

Main Menu

The main menu provides access to all the printer's submenus. Each submenu is briefly described in the following sections of this manual. Default settings are in bold type.



Selecting a Message Window Language

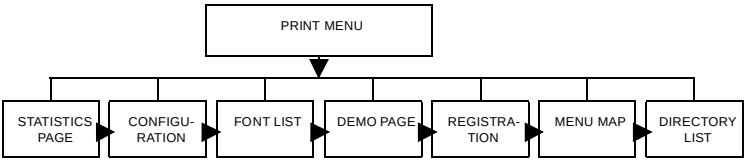
When you receive your printer, the message window language is set to English. However, status messages and configuration menus can be displayed in the message window in English, Czech, French, German, Italian, Japanese, Portuguese, and Spanish.

If you want to change the message window language, use the following control panel sequence:

Press Key	(Until) Display Reads
	READY MAGICOLOR 7300 (and Ready indicator is on)
Menu Select ↵	MAIN MENU PRINT MENU
▶ Or ◀	MAIN MENU SYS DEFAULT
Menu Select ↵	SYS DEFAULT LANGUAGE
Menu Select ↵	LANGUAGE *ENGLISH
▶ Or ◀	Press the Right or Left key until the appropriate language is displayed. example: French LANGUAGE SET FRENCH
Menu Select ↵	example: French LANGUAGE SET *FRENCH
Continue Or ▲	Press the continue or Up arrow three times to return to example: French PRET MAGICOLOR 7300 <*LANGUAGE > is selected.

Print Menu

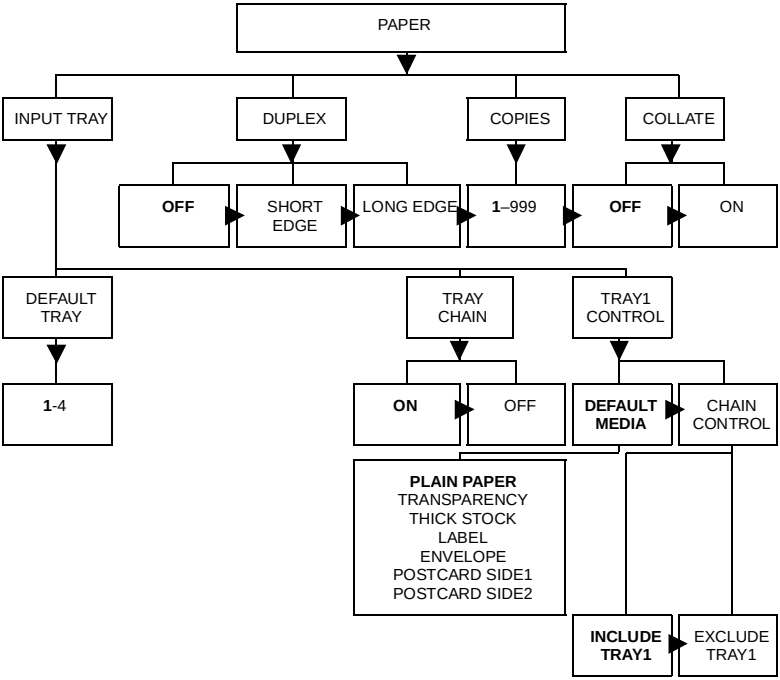
The Print menu allows you to print information about the printer. For example, if you select Menu Map and then select Menu Select, the printer prints an overview of the entire menu structure. If you select Font List and then Menu Select, the printer prints a list of installed fonts with a sample of each. When printing any of the information available from the Print menu, paper from the tray specified with Default Tray is used. (The manufacturer's default setting is Tray1.) Printing is generally possible on any size paper that is loaded; however, all of the information may not fit on some sizes of paper. In that case, print on A4- or Letter-size paper loaded into the tray specified with Default Tray.



The Directory List submenu appears only if an optional hard disk is installed. You must install an internal hard disk to direct print PDF files.

Paper Menu

The Paper menu allows you to control the media source for your print job.

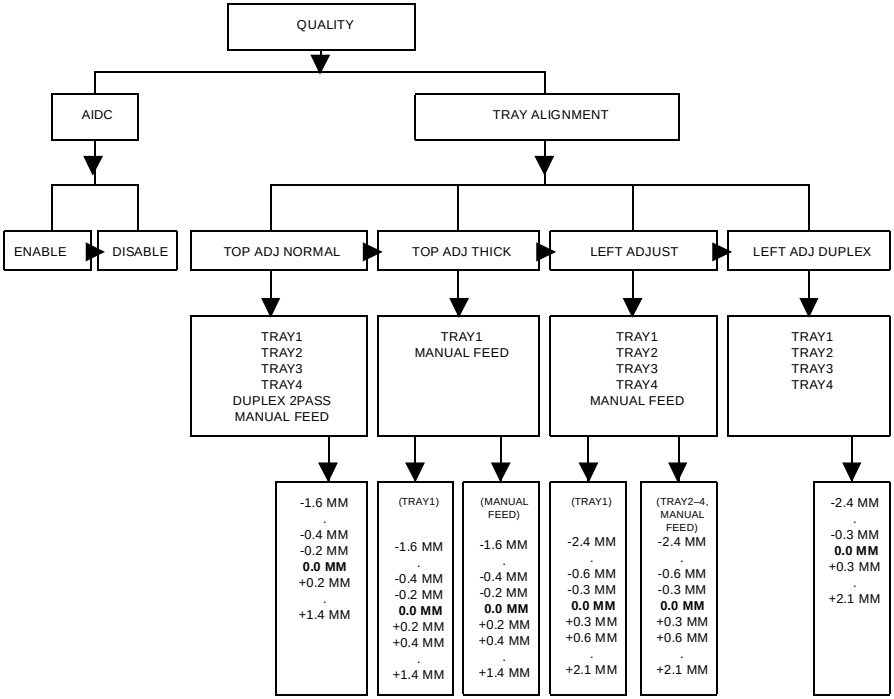


The Duplex submenu appears only if a duplex option is installed.
The Collate submenu appears only if an optional hard disk is installed.
Tray Chaining does not include the Manual Feed Tray.

Tray selection may be overridden by the printer driver.

Quality Menu

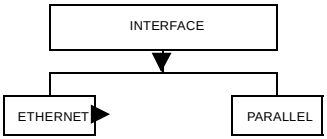
The Quality menu gives you access to items affecting print quality.



Tray3 and Tray4 submenus appear only if those optional lower feeder units are installed. The Manual Feed and Left Adj Duplex submenus appear only if the duplex option and manual feed tray are installed.

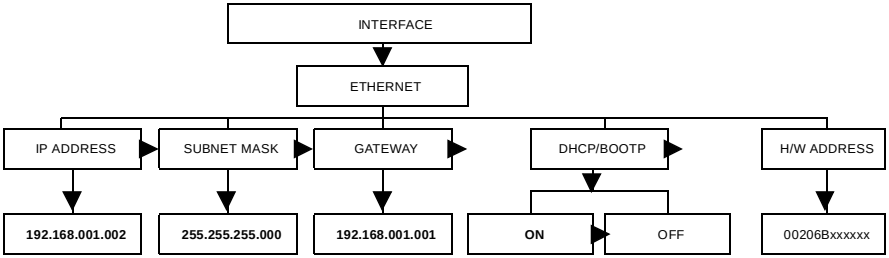
Interface Menu

The Interface Menu allows you to configure the printer's interfaces. The printer automatically reboots after you make a change in one of these menus. Each of the Interface submenus is shown below.
(The printer reboots only if a change is made in the Ethernet menu. In order to apply the new DHCP/BOOTP setting, the printer must be turned off, then on again to be rebooted.)

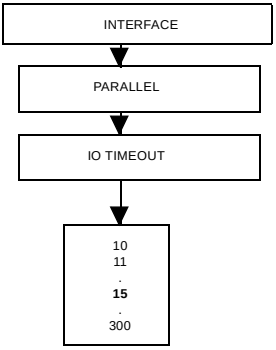


Ethernet Submenu

H/W Address only displays information; the setting cannot be changed.

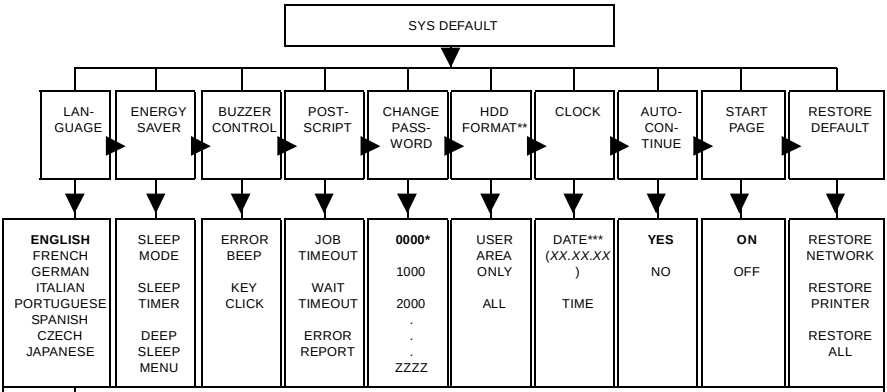


Parallel Submenu



Sys Default Menu

The Sys Default menu allows you to control the way in which the printer responds to various situations. For example, Start Page allows you to decide whether the printer automatically prints a start page when you turn it on.



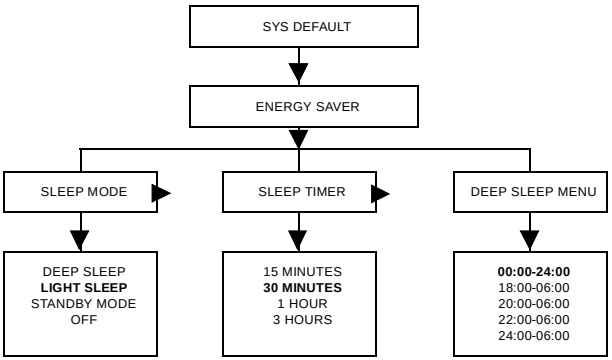
Notes:
*0000 = Disable Password.
**HDD (hard disk drive) format only appears if optional hard disk is installed.*
***Date conventions set at the factory:
220 volt: DD.MM.YYYY
100 volt: YYYY.MM.DD
110 volt: MM.DD.YYYY
Y = Year, M = Month, D = Day.

Energy Saver Submenu

To save energy and extend the life of the fuser, the printer goes into an Energy Saver mode. Printer awakens only after pressing the Energy Saver button or when printer receives a job.

Energy Saver Mode	When	How Long Does It Take to to "Wake Up"?	Comments
Standby Mode	After *X* minutes	30 seconds	■ This preheating mode keeps the fuser roller warm and ready to print
Light Sleep	After *X* minutes	99.9 seconds	■ Control panel fully functional ■ Printer may receive and process data

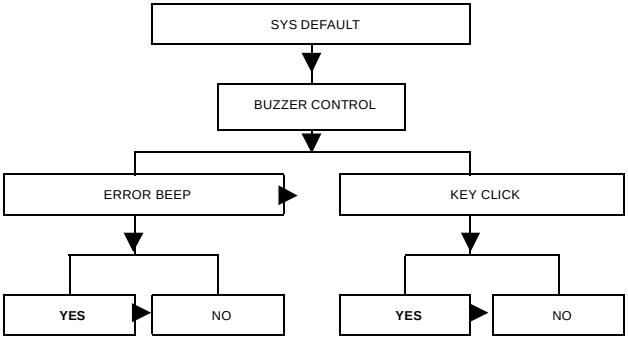
Energy Saver Mode	When	How Long Does It Take to to “Wake Up”?	Comments
Deep Sleep	At a pre-defined hour*	99.9 seconds	■ Printer disabled However, the interfaces remain active, even during deep sleep. The automatically awakens when print data is received. ■ Control panel disabled, except control panel Energy Saver LED lit and Energy Saver button active
Notes:	*The deep sleep menu is available only when you select Deep Sleep from the `SysDefault/Energy Saver/Sleep Mode` menu. Otherwise, the printer can be put into deep sleep if the Energy Saver button is held down for two seconds while the printer is set to READY.		



Buzzer Control Submenu

The buzzer control alerts you to activity on your printer's control panel:

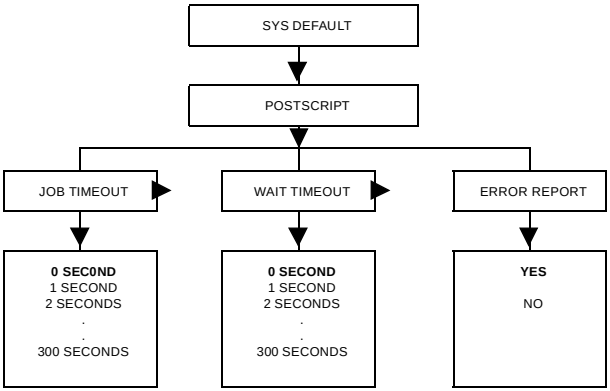
- The **error beep** setting makes audible beeps when an error message is displayed on the control panel
- The **key click** setting makes audible clicks when each key is pressed on the control panel



PostScript Submenu

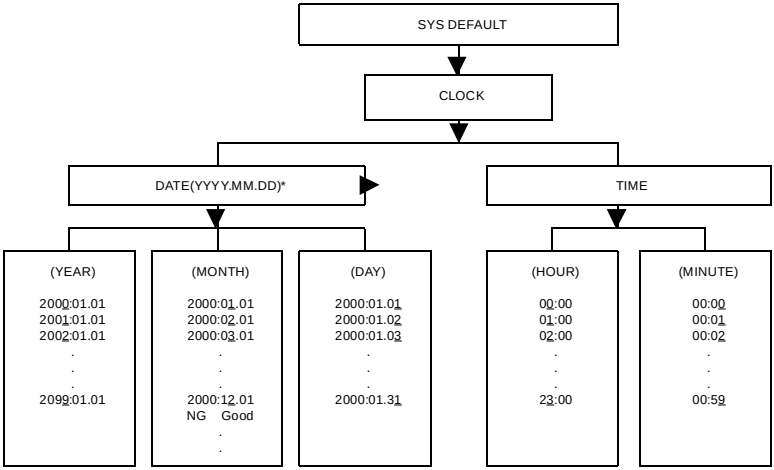
The PostScript submenu allows you to configure timeouts and error reports:

- **Job timeout** specifies the job time for determining if a job timeout (PostScript error) has occurred.
- **Wait timeout** specifies the wait time for determining if a wait timeout has occurred.
- **Error report** specifies whether to print a PostScript error report.



Clock Submenu

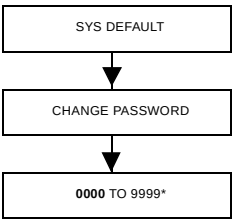
The Clock submenu allows you to set the date and time.



Notes:	*Date conventions set at the factory: 220 volt: DD.MM.YYYY 100 volt: YYYY.MM.DD 110 volt: MM.DD.YYYY Y = Year, M = Month, D = Day.

Change Password Submenu

If a password has been set, the password must be entered in order to access this menu. The Interface and Sys Default menus are locked by this password. With the default password “0000”, the screen requesting that the password be entered does not appear. However, if any other password is specified, the screen requesting that the password be entered appears after the Interface and Sys Default menus are selected. For details on setting a password, refer to the *Reference Guide* on the *Documentation* CD-ROM.



*In addition to numbers, uppercase letters can also be used.

Service Menu

The Service Menu allows a service technician to handle maintenance and service procedures. A special password is required to use the Service menu.

More Information

For more information about menus, refer to the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM.

4

Working with the Printer Driver

About Printer Drivers

The last chapter explained how to control printer features when you are standing at the printer by using the printer's control panel. This chapter explains ways to control the same features without leaving your computer by using printer drivers.

On Windows PCs, you can access the driver in the Start/Settings/Printers path and use a series of tabs in the driver to control printer features. The General and Details tabs are set automatically by your PC's operating system. When you load the driver for the magicolor 7300, the settings for its specific features are displayed on additional tabs in the same series. This manual tells how to access those tabs and what each tab controls.

On Macintosh and Linux systems, printer features are controlled by PPDs. The PPDs are integrated seamlessly into the operating system's own printer driver. Feature settings are accessed in the same manner, no matter what printer you use. This manual includes an introduction to the Macintosh settings. Detailed information for Macintosh and Linux systems is included in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM.

In addition to the control panel and printer drivers, you can use PageScope Light, a web-based utility that is embedded in your printer, to manage many of the same printer features. For information on PageScope Light, see the magicolor 7300 Reference Guide *on the* Documentation *CD-ROM that came with your printer.*

Which print quality is best?

Print Quality	Resolution: Dots per Inch (dpi)	Comment
Standard*	600 x 600	If getting your jobs printed with good quality is most important. This is typically used for text and business forms. ■ Printing is possible with less available memory. ■ Printing can be performed at high speed.
High**	600 x 600 x 4	If getting your jobs printed with best quality is most important. This is typically used for graphics and photographs.
Notes:	*If you don't have enough memory to print a file using high print quality (for example, with large and complicated graphics). **If not much memory is available with the High setting, print using Print Quality set to Standard. Otherwise, add more memory.	

Using PostScript Drivers in Windows XP/2000

Displaying the Tabs

1 From the Start menu, choose Settings and then Printers to display the Printers directory.

2 Select the MINOLTA-QMS magicolor 7300 printer icon.

3 From the File menu choose Properties.

Using the Print Setting Tabs

General printer controls are located on tabs of the main printer driver dialog box. These controls let you check the status of consumables and set access to optional features, including the lower feeder unit, the duplex option, and the internal hard disk.

There are two ways to access the specialized print setting tabs:

- Through your application. This selects printer settings for the specific job you are sending. Choose Print, and then choose Setup button, and then select the printer, and then choose Properties.
- Through the printer driver dialog box. This changes printer settings for all subsequent print jobs until you change the settings again through the printer driver. Choose Start/Settings/Printers, select the magicolor 7300 icon, and then choose Properties from the File menu. On the General tab, click the Printing Preferences button.

The tabs that appear in the new dialog box are described here.

Refer to the printer driver's online help for information on all of these functions.

Layout Tab

This tab allows you to:

- Set the orientation for a print job
- Set the page order
- Set the number of pages per sheet

By clicking the Advanced button, you have access to controls for setting:

- Media size
- Number of copies
- Graphic preferences including color management, scaling, and font substitution

- Advanced printing features
- PostScript options
- Features such as auto continue and header and trailer pages

Paper/Quality Tab

This tab allows you to:

- Select the paper source
- Select the type of media
- Select color or black-and-white printing

The Paper/Quality Tab also includes the Advanced button described in the Layout Tab section above.

This **Paper/Quality** tab allows you to:

- Select an original document size
- Set up custom paper sizes
- Select the output paper size
- Scale (enlarge/reduce) documents upon printout
- Specify the number of copies
- Select/deselect collation
- Substitute the TrueType fonts with Device Font or download as Softfont
- Switch between color and monochrome printing
- Specify color matching (Graphics, Pictures, Proof, and Match)
- Select print resolution (quality)
- Control the tones of an image (Contrast)
- Control the darkness of an image (Brightness)
- Control the color purity of an image (Saturation)
- Control the clarity of an image (Sharpness)

Features Tab

This tab allows you to:

- Select print resolution (quality)
- Set advanced graphic controls, such as toner saving mode, smoothing, mirror image, and rotation
- Set color controls and advanced color options and access the MINOLTA-QMS Download Manager
- Set PostScript features, such as job timeout

- Select document options such as collation, number of copies, scaling, and email notification
- Specify custom document settings

Overlays Tab

This tab allows you to:

- Place a watermark on one or more pages
- Place an overlay on any page or pages, allowing you to reproduce forms, stationery, and similar repetitive page layouts (hard disk required)
- Edit/create an overlay
- Access the MQ Download Manager

About Tab

This tab allows you to:

- Restore printer driver default settings
- Contact the MINOLTA-QMS web page
- Contact www.q-shop.com to order consumables

Using PostScript Drivers in Windows Me/98

Displaying the Tabs

1. From the Start menu, choose Settings and then Printers to display the Printers directory.
2. Select the MINOLTA-QMS magicolor 7300 printer icon.
3. To display the printer driver settings, from the File menu choose Properties, then choose the Details tab.
4. Choose the Setup button.

Using the Print Setting Tabs

General printer controls are located in tabs of the main printer driver dialog box. These controls let you check the status of consumables and set access to optional features including the lower feeder tray, the duplex option, and the internal hard drive.

There are two ways to access the specialized print setting tabs:

- Through your application. This selects printer settings for the specific job you are sending. Choose Print, Select the printer, and then choose Properties.
- Through the printer driver dialog box. This changes printer settings for all subsequent print jobs until you change the settings again through the printer driver. Choose Start/Settings/Printers, select the magicolor 7300 icon and then choose the Properties menu.

The tabs that appear in the new dialog box are described here.

Refer to the printer driver's online help for information on all of these functions.

Layout Tab

This tab allows you to:

- Set the orientation for a print job
- Set duplex options, if the optional duplexer is installed
- Specify the number of pages per sheet

Paper Tab

This tab allows you to:

- Select a media size
- Select the media source
- Select the type of media
- By choosing the Advanced Paper Handling button, select a different paper source for the first page, header and trailer pages and enable/disable auto-continue printing

Features Tab

This tab allows you to:

- Select print resolution (quality)
- Set advanced graphic options, such as toner saving mode, smoothing, mirror image, and rotation
- Set color controls and advanced color options and access the MINOLTA-QMS Download Manager
- Set color control options, such as halftone handling
- Set PostScript features, such as job timeout

- Select document options such as collation, number of copies, scaling, and email notification
- Specify custom document settings

Overlay Tab

This tab allows you to:

- Place a watermark on one or more pages
- Place an overlay on any page or pages, allowing you to reproduce forms, stationery, and similar repetitive page layouts
- Create, add, and delete watermarks
- Access the Download Manager

Fonts Tab

This tab allows you to:

- Set handling options for TrueType fonts
- Set font substitution standards
- Access the Download Manager

Settings Tab

This tab allows you to:

- Indicate which printer options are installed

Selecting installed options makes the related features available in the printer driver.

- Set accounting information

About Tab

This tab allows you to:

- Restore printer driver default settings
- Contact the MINOLTA-QMS web page
- Contact www.q-shop.com to order consumables

Using PostScript Drivers in Windows NT

Displaying the Tabs

1. From the Start menu, choose Settings and then Printers to display the Printers directory.
2. Right-click the MINOLTA-QMS magicolor 7300 printer icon.
3. Choose Properties.
4. Choose the Settings tab.

Using the Print Setting Tabs

General printer controls are located in tabs of the main printer driver dialog box. These controls let you check the status of consumables and set access to optional features including the lower feeder tray, the duplex option, and the internal hard drive.

There are two ways to access the specialized print setting tabs:

- Through your application. This selects printer settings for the specific job you are sending. Choose Print and then choose Properties.
- Through the printer driver dialog box. This changes printer settings for all subsequent print jobs until you change the settings again through the printer driver. Choose Start/Settings/Printers, select the magicolor 7300 icon and then choose the Document Defaults menu. The tabs in the new Document Default dialog box are described here.

Refer to the printer driver's online help for information on all of these functions.

Page Setup Tab

This tab allows you to:

- Set the media size
- Select the media source
- Set the orientation for a print job
- Set the number of copies
- Select black-and-white or color printing
- Print several pages of a document on the same print page
- Provide printouts with a watermark

- Design custom watermarks
- Specify duplex and booklet printing

Refer to the printer driver's online help for information on all of these functions.

Advanced Tab

This tab give you an alternate access to all the choices available on the Page Setup Tab. It also allows you to:

- Select graphic options such as scaling and font substitution
- Select document options such as number of pages per sheet, header and trailer pages, and automatic tray switching

Features Tab

This tab allows you to:

- Select print resolution (quality)
- Configure color controls
- Set PostScript options
- Check a proof before printing multiple copies or set a password to hold a print job until you are at the printer, if an optional hard disk is installed

Overlays Tab

This tab allows you to:

- Place an overlay on any page or pages, allowing you to reproduce forms, stationery, and similar repetitive page layouts
- Place a watermark on one or more pages
- Access the MQ Download Manager

Using Macintosh PPDs

Displaying the Printer Options

1. When you are ready to print, open the print dialog box by choosing the Print option within the application you are using.
2. In the Printer drop-down list, select the magicolor 7300.

3 Set your configuration choices by accessing the dialog boxes from the drop-down list that starts with General. The dialog boxes are different in different applications.

Most printer features are controlled by the Apple LaserWriter driver or configured within the application you are using. In addition to those standard choices, the MINOLTA-QMS PPDs also allow you to configure:

- Paper sources
- Duplexing options
- Watermarks and overlays
- Color matching
- Color options
- Print quality

For detailed information about Macintosh PPDs, see the magicolor 7300 Reference Guide *on the* Documentation *CD-ROM.*

5 Working with Color

About Color Printing

This chapter introduces the color features available on your printer, including printer resolutions, Automatic Image Density Control (AIDC), and color matching. In addition, it includes a brief troubleshooting section to help you deal with any color problems that might arise.

Color printing is based on the principles of subtractive colors, using pigment to absorb light and reflect the appropriate colors back to the viewer's eye. The magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM includes a chapter on color basics, if you want to learn more about the theory behind color printing. The *Reference Guide* also includes a chapter on color profiles, which explains how monitor colors are translated into printed colors and tells you how to download specialized color profiles if you need them.

Printer Resolutions

Your printer offers a choice of print resolutions, depending on which driver you select.

	PostScript Name	Description
Monochrome printer driver	Standard	600x600 dpi black only
	High	600x600x4 black only
Color printer driver	Standard	600x600 dpi color
	High	600x600x4 color

Selecting a Resolution

Select the print resolution from your application's print dialog box or from the printer driver. The best option depends on what you're printing.

- **Standard** is the fastest choice for printing. Standard prints crisp type, so it's also a good choice for documents that don't include graphics.
- **High** is the best choice for print jobs with graphics. Pages take slightly longer to print but produce the best graphics. High resolution provides 600x600x4 dpi printing with contone imaging. Contone uses increased bit depth to produce clear images. Pantone tables, which are included on the *Software Utilities* CD-ROM and on the Internet (www.minolta-qms.com), can help with color matching at this resolution.

Automatic Image Density Control (AIDC)

The printer's color calibration procedure, known as the Automatic Image Density Control (AIDC) cycle, is performed automatically based on the number of pages printed, environmental changes, and consumable changes.

During an AIDC cycle, the printer performs an internal check of its color output and automatically readjusts itself to optimum settings that account for the age of toner cartridges and changes to the printer's environment, such as increases or decreases in humidity or temperature. This cycle checks both the 100% saturated colors and the halftoned colors.

The length of the AIDC cycle depends on several factors.

- **Light Calibration**—Light calibration is performed when you turn the printer power on, when the printer wakes from a deep sleep Energy Saver mode, Light sleep Energy Saver mode, and when the fuser unit is replaced. This cycle lasts 73–99 seconds.
- **Heavy Calibration**—Heavy calibration is performed when you replace one or more print units or toner cartridges. This cycle lasts 197 seconds when one print unit or toner cartridge is replaced, or 240 seconds when all four print units and/or toner cartridges are replaced.
- **Intermittent Printing**—A 26-second cycle is performed immediately after page 200 or just before page 201 of intermittent printing, and whenever the engine detects a specified inside temperature change.
- **Continuous Printing**—A 26-second cycle is performed every 11 minutes of continuous printing, and whenever the engine detects a specified inside temperature change.

In most cases, it's best to leave the automatic AIDC function enabled all the time, but you can use the printer's `Quality/AIDC/Disable` menu to disable it if you are using linearization or calibration software.

Color Matching

Your printer's color management system is adjusted for best results with the most commonly used application software, including the Microsoft Office products. If you are using these common applications, you may never need to adjust the color matching on your printer.

If you do need to make adjustments, however, the printer offers you a wide variety of color matching options.

Color controls are located in the Features tab of the printer driver.

Quick Color Configuration

The simplest way to control colors is with the Quick Color Configuration option in the printer driver. Quick Color Configuration offers 6 choices that are applied to the entire print job. You can select the setting that's most appropriate for your entire print job and apply it uniformly to all text and graphics.

Color Options

When your print jobs are more complicated, Color Options is the best choice. Color Options lets you apply one color matching standard to graphics and another to images.

Halftone Screens

Continuous tone images have to be converted to dot pattern images on a laser printer. Because of the limited resolving power of the eye, halftones appear as continuous tone images. Halftones are defined by three characteristics—screen frequency (or lines per inch, the number of lines of dots that compose each inch of a halftone screen), screen angle (the angle at which a halftone screen prints), and spot function (the shape of the dots).

Three halftones screens are available for this printer. In the Detailed Color Settings dialog box in the Windows drivers, you can choose separate halftone screens for Characters/Graphics and for Images:

- **Low**—Best for photographs and scanned images
- **General**—Optimized for performance and quality
- **High**—Best for text and line art

Color Profiles

Color profiles use the International Color Consortium (ICC) standards to translate monitor colors into printer colors. Color profiles are more flexible than color rendering dictionaries, so you can make the closest color matches for your particular job, but they may require more skill to manipulate so that you get the results you want.

You can set the RGB source profile to match the characteristics of the source of the print job, the simulation profile to match a specific press, and the output profile to indicate the characteristics of your printing device. Several source and simulation profiles are included with your printer or you can download additional profiles. Instructions for downloading profiles are included in the magicolor 7300 *Reference Guide* on the *Documentation* CD-ROM.

RGB Source Profiles

RGB Source profiles are used for color conversion from RGB devices, such as monitors, to CMYK devices, such as printers. Use RGB Source to indicate the source in which the job was created. Five choices are available in the printer driver.

- **Contrast**—The same as sRGB but with a lower gamma (1.8), which results in slightly lighter output. This profile is a good choice when printing photographs.
- **None**—No color conversion is applied.
- **sRGB**—A standard color space based on the average performance of PC monitors. This is the default setting for your printer. This profile provides a very good representation of monitor colors and is especially useful if you're printing documents from the web or from Microsoft Office applications.
- **sRGB Saturation**—The same as Vivid but with a higher gamma, which results in slightly darker output. This profile is a good choice for presentations, colored text, and business graphics.
- **Vivid**—Provides the most vivid colors possible by mapping RGB solid colors to the printer's CMYK solid colors. This profile is an excellent choice for transparencies and business graphics.

Simulation Profiles

These profiles are used to convert information about one CMYK device into data for another CMYK device. That is, you can use them to make your magicolor 7300 printer create colors like those produced on a different printer or a printing press. Custom profiles are added through the Printer Profile Management dialog box.

Destination Profiles

Custom destination profiles are added through the Printer Profile Management dialog box.

Profiles for Host-based Color Management

Some software applications use host-based color management and work best with color profiles tailored specifically for that purpose. Such profiles are available in the Windows/Utilities/Color directory on the *Software Utilities* CD-ROM that came with your printer. (Readme files provide directions on how to use and where to load each profile.) MINOLTA-QMS recommends that you use these specialized host profiles for CMYK print jobs to manage the amount of toner put on the page. They are useful when working with Microsoft ICM2 for Windows, Apple ColorSync, CorelDRAW, Kodak KCMS, Adobe PageMaker, Adobe Illustrator, Adobe Photoshop, and other applications.

Gray Treatment

Process gray can be turned on or off for each element of the job:

- Black & White printing—prints 100% black with black toner only.
- Color printing/Black & Gray—prints all 100% black and intermediate grays with black toner only.
- Color printing/Composite Black—prints 100% black and intermediate grays with a composite of all four toners.

Troubleshooting Color Problems

The magicolor 7300 color matching system is optimized for the sRGB Standard, which is the standard used with many common applications such as Microsoft Office. In most cases, you do not need to make any adjustments to the default color settings to achieve the best results.

If you have trouble with color, however, there are several things to check.

1 **Mechanical Problems.** Print quality problems that are caused by mechanical problems are usually drastic—colors that change from page to page; colors that are off-register; colors that aren't anything like you expect.

- Are all four toner cartridges installed properly?
- Do all four toner cartridges have toner?
- Are the print units installed properly?
- Are the printer doors closed?

Instructions for checking all these mechanical issues are included in chapter 10, "Troubleshooting."

2 **Resolution.** If images look grainy or if your page is printed with black toner only, the Color Options may be set for Black & White printing or the resolution may be set wrong.

- If Color Options is set to Black & White, all text and graphics print in 100% black.
- If the resolution is set to Standard, text prints well, but images may look grainy or unclear. It's a good choice for text documents.
- If the resolution is set to High, images are sharp and clear. Printing takes somewhat longer at High resolution, but it's the best choice for the delivery copy of a document containing images.

3 **Registration Page.** The registration page (`Print Menu/ Registration`) prints color test patterns so you can see whether all of the colors are registered (lined up) properly. The registration page always prints at 600x600 dpi resolution.

4 **Vivid Setting**. This setting is optimized for transparencies, mapping the monitor's solid colors to the printer's solid colors so the intensity matches.

- If graphics don't match monitor colors, turn Vivid on.
- This setting may not work well for images, so experiment with it to find the best setting for your print job.

5 **RGB Source.** This setting needs to match the profile for the document being printed.

- Some applications tell the RGB source. If your document or application lists the RGB source, set the printer to match. If it does not, you can experiment with this setting to find the best option for your print job.
- If dots of cyan or magenta appear in what should be solid yellow blocks, such as the highlighter feature in Microsoft Word or the table and spreadsheet cell fills in Microsoft Word or Excel, set the RGB Source to None.

6 **Color Matching.** If you see spots of toner around the edges of text, if colors are too dark or too saturated, or if toner is so thick that it flakes off the finished page, check whether Quick Color Configuration (on the Features tab in your printer driver) is set to None. If it is, choose one of the other options from the drop-down list. All of the other color configuration options regulate the amount of toner that goes on the page, making sure that the total amount is within the range that the printer can fuse to the media.

7 **Other Color Problems.** Most other color printing problems arise from color management issues in the application that was used to create the job or from which you are printing the job.

- Check the application documentation for advice on color management.
- Check the color notes on the MINOLTA-QMS web site at www.minolta-qms.com for information on color issues with popular publishing software.

6

Working with the Status Monitor

Working with the Status Monitor

Introduction

The Status Monitor shows information about the current status of the computer's local printer.

You can install the Status Monitor via the *Software Utilities* CD-ROM.

Environment

The Status Monitor can be used with Windows XP, 2000, NT4, Me, 98, and 95, connected via Ethernet in Windows TCP/IP.

To install Status Monitor on Windows, you must first install Windows Media Player, which is available on the Microsoft website.

Opening the Status Monitor and Showing Supplies Status

Use one of the following steps to open the Status Monitor.

- **Windows XP**—Choose Start, All Programs, then MINOLTA-QMS magicolor 7300 Utilities, and then MINOLTA-QMS magicolor 7300 Status.
- **Windows Me/2000/98/95/NT 4.0**—From the Start menu, choose Programs, then MINOLTA-QMS magicolor 7300 Utilities, and then MINOLTA-QMS magicolor 7300 Status.

Altering the Size of the Status Monitor Window

- From the Display menu, choose Status (Reduce) to decrease the size of the window, or
- From the Display menu, choose Status (Expand) to increase the size of the window.

Using the Status Monitor

- When the background of the right-hand printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the right-hand printer graphic is red, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.

The function areas include:

- **Printer status**—Displays text messages that describe the current operational status of the printer.

- **How to recover**—Provides you with explanations of what you need to do in order to correct problems and recover from error conditions.
- **Warning status**—Displays text messages that warn you of such conditions as low toner.
- **Printer status figure**—Shows a graphic representation of the printer and indicates where there is a problem.
- **Printing status**—Displays the status of the current print job.
- **Select popup message**—Allows you to choose which message(s) you want brought to the foreground when that particular condition occurs on the printer.
- **Supplies status**—Displays consumables usage statuses (percentage remaining) for toner cartridges and print units.

Refer to the Status Monitor's online help for information on all of its functions.

Recognizing Status Monitor Alerts

When the Status Monitor detects a printing problem, several actions occur at once, depending on your settings. First, the icon changes from green to yellow, orange, or red, depending on the severity of the printer problem. Next, the icon flashes, if you have set it to flash in the advanced options. In addition, the Status Monitor sends you an email to alert you to the problem. You can set the interval between the time Status Monitor detects a problem and the time it sends an email.

Refer to online help for further information on these settings.

Recovering from a Status Monitor Alert

When the Status Monitor notifies you of a printing problem, double-click on its icon to open the Status Monitor. The Status Monitor identifies which printer has an error and what type of error has occurred.

Finally, the Status Monitor includes Quick Time video clips that illustrate how to solve the print problem.

Refer to online help for further information on these settings.

Closing the Status Monitor

When you have completed the actions necessary to correct the printer problem, the icon turns green again.

Select Close from the Status or Consumable menu. The Status Monitor window closes, but the Status Monitor continues to operate in the background. To close the Status Monitor from the File menu, choose Exit.

If you click the X button in the upper-right corner of the Status Monitor window to close the window, the Status Monitor remains available at the bottom right of the taskbar. Double-click the icon to open it again.

7

Replacing Consumables

Introduction

Attention

Failure to follow instructions as outlined in this manual could void your warranty.

Use of consumables or media not approved by MINOLTA-QMS may damage your printer and void your warranty. In this case, standard time and material charges will be applied to service your printer for that particular failure or damage.

Item	Page
What is a **consumable**?	page 80
What is a "**face**"?	page 81
What is the **life expectancy** of consumables?	page 81
How do I replace a **toner cartridge**?	page 84
How do I replace the **waste toner box**?	page 90
How do I replace a **print unit assembly**?	page 93
How do I replace a **fuser unit**?	page 105
How do I replace a **media pickup roller**?	page 109
How do I replace a **media separator roller**?	page 115
How do I **order** consumables?	page 117
Where can I get more **information**?	page 117

What is a consumable?

A consumable is an item that needs to be replaced at regular intervals. For the magicolor 7300, user-replaceable consumables include:

- Fuser unit
- Media pickup rollers
- Media separator rollers
- Print units (4)
- Toner cartridges (4)
- Waste toner box

Attention

Although the printer was designed for occasional printing on a wide range of media types, it is not intended for printing exclusively on a single media type, except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

Antistatic Protection

Attention

It's extremely important to protect the printer from electrostatic damage while all operations are being performed.

If you don't have an antistatic wrist strap, discharge your body's static electric charge by touching a grounded surface before performing any servicing operation. Also, avoid walking around after grounding yourself.

What is a "face"?

A "face" is a single pass of media past the transfer belt unit. A two-sided (duplex) page (also called a "sheet") consists of two faces.

Consumable Life Expectancies

Attention

Consumable life is expressed in simplex letter/A4-size pages with normal (5%) coverage in continuous printing. A duplex page is equivalent to two simplex pages.

The stated life expectancy of each consumable is based on standard mode, normal single-sided page coverage (usually 5% of letter/A4-size media), and on whether printing is continuous (for optimal consumable life, such as 500 pages), average (three pages), or intermittent (one page) job size, and on specific operating conditions such as media type, number of color faces, and page size.

The actual life expectancy will vary based on printing under these specific operating conditions and other printing variables, such as ambient temperature, humidity, and content of material printed (for example, text or graphics).

The following messages in the control panel's message window indicate that a consumable needs to be replaced.

Item: Message	This item needs replacing by the user after typical usage of these pages...		
	Intermittent (1 page per job)	**Average (3 pages per job)**	**Continuous**
Toner Cartridge(s): `TONER EMPTY` `REPLACE` *`KCMY`*	**5% Coverage:** Black: 3,800; Cyan, magenta, and yellow, each: 3,300	**5% Coverage:** Black: 6,000; Cyan, magenta, and yellow, each: 5,000	**5% Coverage:** All colors: 7,500

Item: Message	This item needs replacing by the user after typical usage of these pages...		
	Intermittent (1 page per job)	**Average (3 pages per job)**	**Continuous**
Waste Toner Box(1)**:** `WASTE TONER FULL` `REPLACE BOX`	1,500	3,500	8,000
Notes:	(1) The printer stops approximately 450 pages after the `WASTE TONER NEAR FULL` message displays. For heavier coverages, the approximate maximum waste toner box capacities will decrease.		

Item: Message	This item needs replacing by the user after typical usage of these pages...		
	Intermittent (1 page per job)	**Average (3 pages per job)**	**Continuous**
Print Unit Assemblies(2)**:** `PRINT UNIT END` `REPLACE` *`KCMY`*	7,600–9,300	15,900–19,500	26,000–32,500
Notes:	(2) For heavier coverages, the approximate maximum capacities will decrease. To determine your average percent coverage, print a consumables statistics page (`Print Menu/Statistics Page`).		

Item: Message	This item needs replacing by the user after typical usage of these pages...		
	Intermittent (1 page per job)	**Average (3 pages per job)**	**Continuous**
Fuser Unit: FUSER LOW	120,000+		

Item: Message	This item needs replacing by the user after typical usage of these pages...		
	Intermittent (1 page per job)	**Average (3 pages per job)**	**Continuous**
Media Pickup and Separator Roller Kit for Tray 1 and Trays 2-4 (3): (No message appears.)	200,000+		
Notes:	(3) The manual feed tray does not have media pickup or separator rollers.		

Several consumables need to be replaced simultaneously.

When You Replace This...	Also Replace This
Media pickup roller	Media separating roller
Media separating roller	Media pickup roller
Print unit	The same-color toner cartridge

Replacing a Toner Cartridge

Toner Cartridge Life

Attention

Do not remove a toner cartridge until TONER EMPTY displays in the control panel message window or you are replacing the print unit; otherwise, the amount of toner may not be detected correctly.

When a toner cartridge runs low, TONER LOW *KCMY* (*KCMY* =color) appears in the message window, indicating that there is approximately 5% toner remaining. Printing continues even though the warning appears. Approximately 450 pages (A4/Letter) can be printed after TONER LOW *KCMY* appears in the message window.

When the toner cartridge is empty, TONER EMPTY/REPLACE *KCMY* appears in the message window.

You can print a monochrome (black) job even when any of the color toner cartridges is empty and the job does not use that color.

For example, when the message window displays READY/TONER EMPTY Y (Y for yellow), and you are printing only black text, the job prints. If the job you are printing contains even a small amount of yellow, TONER EMPTY/ REPLACE Y appears in the message window, and the printer stops operating until the yellow toner cartridge is replaced.

Toners combine to create colors. For example, magenta and yellow toners combine to create the color orange.

You can also access the toner cartridge supplies status using the Status Monitor, PageScope Light, and the drivers (via TCP/IP) for Windows XP/ 2000/Me/98/NT4 and PPDs (refer to “Working with the Status Monitor” on page 76).

Keep toner cartridges:

- In their packaging until you’re ready to install them.
- In a cool, dry location away from sunlight (due to heat).

  The maximum storage temperature is 95° F (35° C) and the maximum storage humidity is 85% (noncondensing). If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.

- Level during storage.

  Do not stand or store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.

- Away from salty air and corrosive gases such as aerosols.
- Away from fire.

WARNING!

Dispose of the used toner cartridge according to your local regulations. Do not dispose of it by burning. Toner expelled from the fire may cause burns.

If toner gets in your eyes, immediately flush them with water, and then seek medical attention. Material Safety Data Sheet (MSDS) information can be found at www.minolta-qms.com (click on "24-Hour Online Help").

The toner is nontoxic. If you get toner on your hands, wash them in cool water or a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

Replacing a Toner Cartridge

1 Check the message window to see which color toner is empty (Y = Yellow, M = Magenta, C = Cyan, and K = Black). In this example, we'll assume that the yellow toner cartridge needs to be replaced.

2 Open the printer's front door.

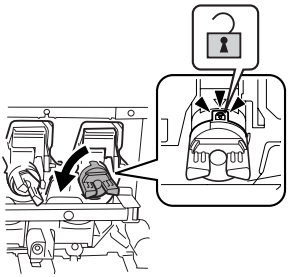
3 Place an old newspaper over the door in case any toner spills.

If you are replacing just the toner cartridge, continue with "Removing an Empty Toner Cartridge" on page 86. If you are replacing the toner cartridge as a part of the entire print unit assembly, skip to "Installing a New Toner Cartridge" on page 87.

Removing an Empty Toner Cartridge

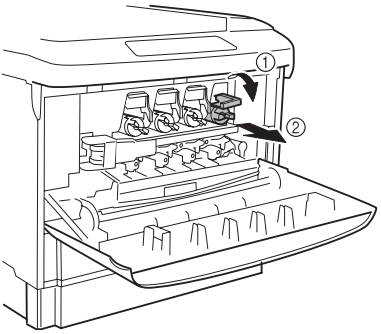
1 Turn the knob of the empty toner cartridge counterclockwise.

The unlock icon should be visible in the notch of the knob.

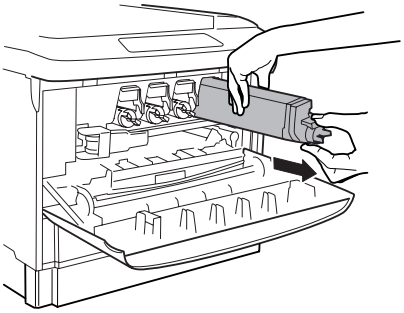


2 Press down on the lever at the top of the toner cartridge ①, and then grab the lever and knob with your right hand.

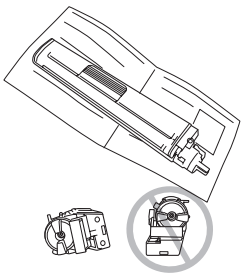
3 Slowly pull the toner cartridge out ② about 6 inch (15 cm).



4 Place your left hand on top of the used toner cartridge, and then fully pull out the toner cartridge.



If you need to set the removed toner cartridge down, place it sideways on a surface covered with an old newspaper. Do not shake the used toner cartridge; otherwise, toner attached to it may spill.



Installing a New Toner Cartridge

The toner is nontoxic. If you get toner on your hands, wash them in cool water with a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

WARNING!

If toner gets in your eyes, immediately flush them with water, and then seek medical attention. Material Safety Data Sheet (MSDS) information can be found at www.minolta-qms.com (click on "24-Hour Online Help").

1 Remove the new toner cartridge from its packaging.

2 Place the used toner cartridge in the packaging from the new toner cartridge.

WARNING!

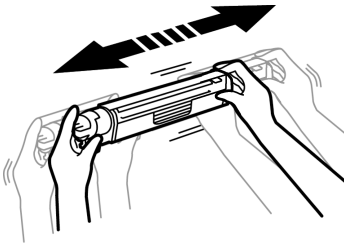
Do not throw it into a fire. Toner expelled from the fire may cause burns.

Attention

Contact toner_recycle@minolta-qms.com for recycling or disposal information.

Recyclable Material

3 To loosen the toner inside the cartridge, vigorously shake the toner cartridge horizontally 10 or more times.

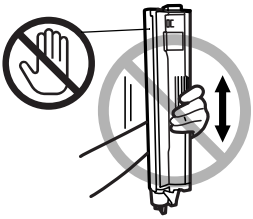


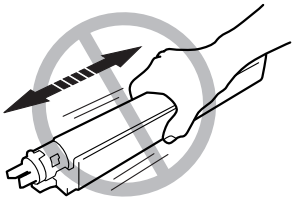
Attention

Do not shake the toner cartridge vertically.

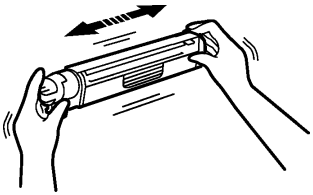
Be careful not to hold the toner cartridge by its shutter.

Do not touch the toner roller surface. This could lower image quality.



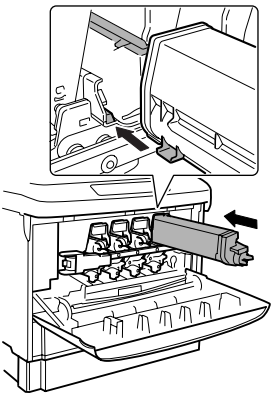


4 Next, to distribute the toner evenly inside the cartridge, gently shake the toner cartridge horizontally a few more times.



5 Check the color of the label on the printer, and then slowly and fully insert the toner cartridge of the same color into the compartment.

The arrow at the end of the toner cartridge indicates the direction to insert it.

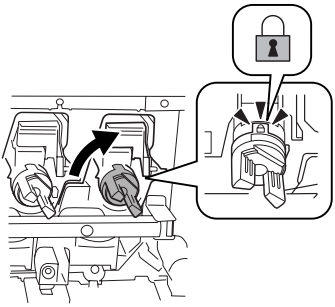


6 While pushing in the knob on the toner cartridge, turn the knob clockwise.

Check that the lock mark can be seen in the window of the knob.

If the knob is not positioned correctly, the front door cannot be closed.

7 Slowly close the front door.



Auto-Image Density Control (AIDC)

The printer automatically pauses for an Auto-Image Density Control (AIDC) calibration cycle (minimum 198 seconds, maximum 241seconds) after the installation of a new print unit. This process is provided to ensure reliable printer operation with optimum output quality.

If you open the door before READY *appears in the message window, the printer stops and repeats the calibration cycle.*

Refilled Toner Cartridges

Attention

Do not use refilled toner cartridges. Any damage to the printer or quality problems caused by a refilled toner cartridge will void your warranty.

Replacing the Waste Toner Box

Waste Toner Box Life

When the waste toner box becomes near full, the message WASTE NEAR FULL appears in the control panel's message window.

When the waste toner box becomes full, the message WASTE TONER FULL/ REPLACE BOX appears in the control panel's message window. The printer will stop and will not start again until the waste toner box is replaced.

Follow the instructions below to replace the waste toner box. After the waste toner box has been replaced, approximately 8,000 pages can be printed. The actual number of pages that can be printed depends on the image and media size being printed in addition to other printing conditions.

Replacing a Waste Toner Box

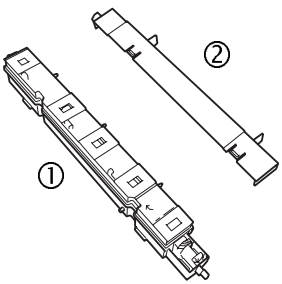
The toner is nontoxic. If you get toner on your hands, wash them in cool water or a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

WARNING!

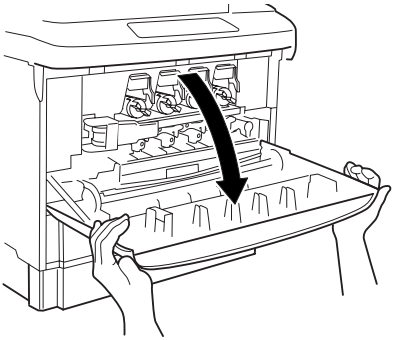
If toner gets in your eyes, immediately flush them with water, and then seek medical attention. Material Safety Data Sheet (MSDS) information can be found at www.minolta-qms.com (click on "24-Hour Online Help").

1 Remove the new waste toner box ① and cover ② from their packaging.

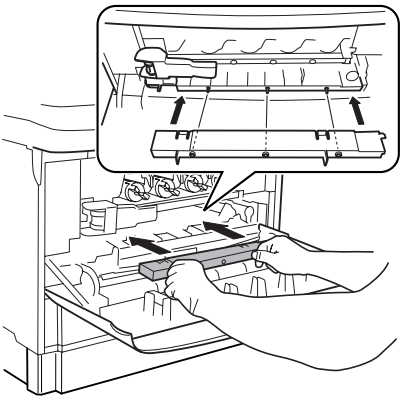
Save the packaging from the new waste toner box to pack the used waste toner box.



2 Open the printer's front door.

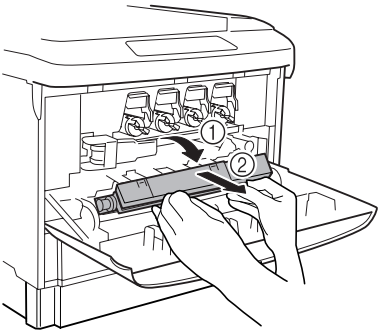


3 Grab the handle of the cover (② above), and then attach it to the top of the used waste toner box.



4 Holding the handle of the cover, tilt the used waste toner box toward you to remove both the box and the cover.

5 Place the used waste toner box and cover in the packaging from the new waste toner box so that the waste toner will not spill.



WARNING!

Do not throw it into a fire. Toner expelled from the fire may cause burns.

Attention

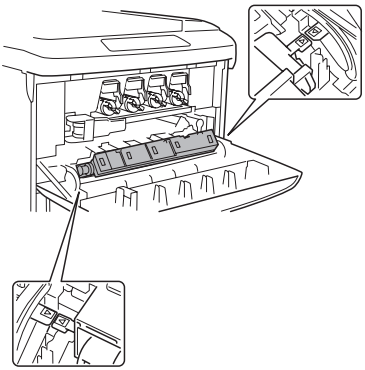
Contact toner_recycle@minolta-qms.com for recycling or disposal information.

Recyclable Material

6 Place the new waste toner box on the front door with the arrow mark on the waste toner box aligned with the arrow mark on the inside of the front door.

7 Hold both sides of the front door and slowly close it.

The new waste toner box will move into position.



Replacing a Print Unit Assembly

The print unit assembly consists of the print unit and its corresponding color toner cartridge.

You do not need to reset the consumables usage monitoring system when you replace a print unit assembly.

Print Unit Life

Characters and images are created in your laser printer through a photosensitive process that applies toner to the Optical Photo Conductor (OPC) (which functions like photographic film). Each print unit contains an OPC, and a developer that form the image that is developed and transferred to the media. The full print unit assembly also includes a same-color toner cartridge.

Print unit life is directly related to the number of rotations of the OPC. Longer life is achieved with continuous printing. Intermittent printing with small-sized jobs requires automatic cleaning rotations before and after each job, which impacts print unit life.

The number of pages that can be printed differs depending on the image and size being printed in addition to other printing conditions.

Attention

The print units are extremely sensitive to bright light, direct sunlight, and touch. Always leave the print unit in its protective package until you're ready to install it. Any exposure to light should be avoided and limited to less than two minutes, or permanent damage could result.

If you suspect the print units are damaged due to exposure to light, put the entire print unit in a dark place to recover. Depending on the amount of exposure, recovery may take up to two hours. Recovery time is dependent on the amount of exposure sustained, and recovery is not guaranteed. Any damage resulting from mishandling of the print units will void the warranty of the print units.

When the print unit is low, the message `P-UNIT LOW` *`KCMY`* (*`KCMY`* = color) appears. You will need to replace the print unit soon.

When the print unit is worn out, the message `PRINT UNIT END/REPLACE` *`KCMY`* (*`KCMY`* = color) appears. The printer will not print until the print unit and its same color toner cartridge are replaced. After the print unit assembly is replaced, the printer automatically resets the consumables count.

By printing the Statistics page or by using PageScope Light, the percentage of life remaining on the toner cartridges and the current print units can be checked.

However, if the life of the print unit reaches 0% but the toner in the attached toner cartridge has not yet reached 0%, the message "PRINT UNIT END/ REPLACE KMCY" will not appear in the message window of the printer.

It will not be necessary to replace the print unit until the toner cartridge runs out of toner. This allows for efficient use of the toner cartridge and print unit.

When lives of both the print unit and the toner cartridge have reached 0%, the message "PRINT UNIT END/ REPLACE KMCY" appears.

When this message appears, replace the print unit with the toner cartridge attached to it.

After the new print unit is installed into the printer, attach a new toner cartridge to the new print unit.

Follow the instructions below to replace the print unit assembly. All print units are replaced in the same way. The only difference is the specific cartridge slot into which they're placed.

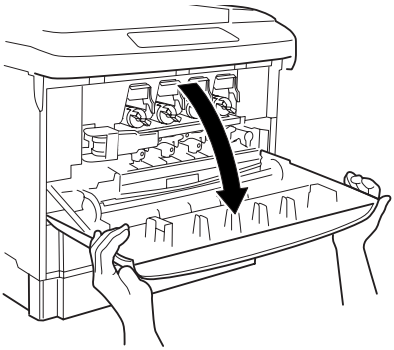
Attention

Be careful not to spill toner inside the printer or on yourself while removing a print unit or toner cartridge. If toner spills, immediately wipe it off with a soft, dry cloth.

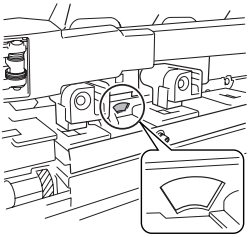
Installing a Print Unit

1 Check the message window to see which color print unit needs replacing (Y = Yellow, M = Magenta, C = Cyan, and K = Black). In this example, we'll assume that the yellow print unit needs to be replaced.

2 Open the printer's front door.



3 Check the indicator in the window. If the indicator is red, a paper misfeed occurred within the printer or the printer has been turned off while receiving data, printing, or performing its automatic adjustment. Remove the misfed paper, close the front door, and then turn on the printer.

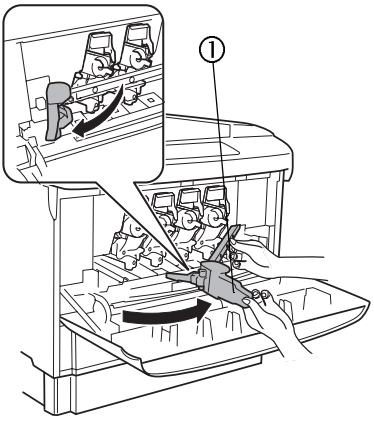


4 Use your left hand to grab the handle ① of the print units' lock lever.

Use your right hand to support the lever.

5 Pull the handle toward you to release the lever.

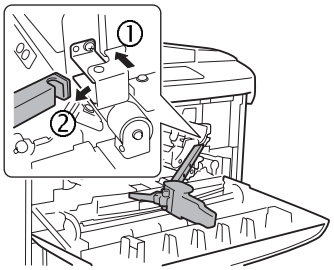
6 Pull the left end of the lock lever toward you to open it to a 45° angle.



Attention

If the lock lever is opened too far, it may come off its shaft. Be careful not to drop the lever.

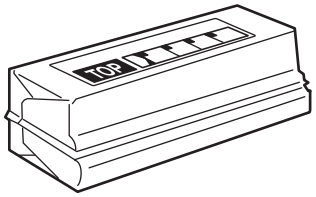
7 Push the right end of the lock lever toward the printer to remove it from its shaft ①, and then pull the lever toward you to remove it ②.



8 Prepare the new print unit.

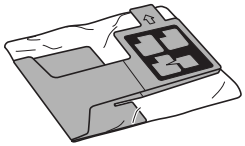
9 Remove the new print unit, which is wrapped in an aluminum pack, and the print unit disposal bag from the box.

Check that "Operating Procedure" appears on the front of the aluminum pack.

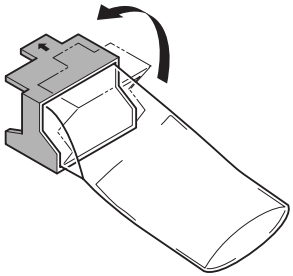


Attention

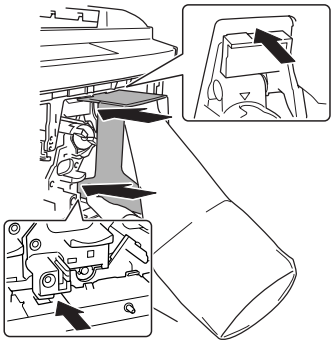
Do not throw away the box or the packing material. They will be reused to pack the used print unit.



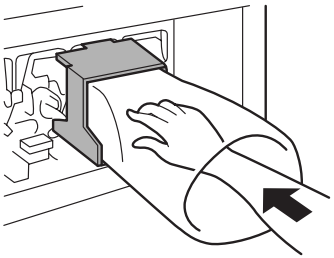
10 Open the square opening in the print unit disposal bag.



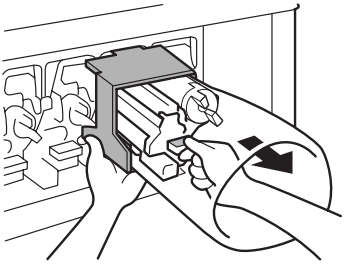
11 While supporting the opening from the bottom with your left hand, insert the end of the opening into the print unit compartment. Then, push the opening into the printer.



12 Insert your right hand into the print unit disposal bag.

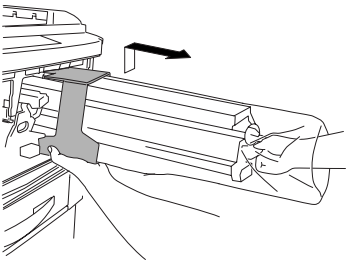


13 Use your right hand to grab the knob on the print unit, and then slowly pull the print unit out as far as possible.

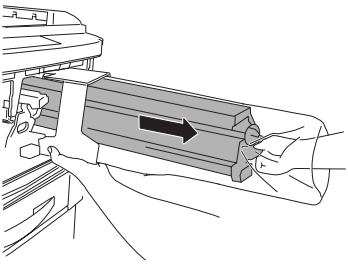


14 Lift up the print unit about 0.08 inch (2 mm).

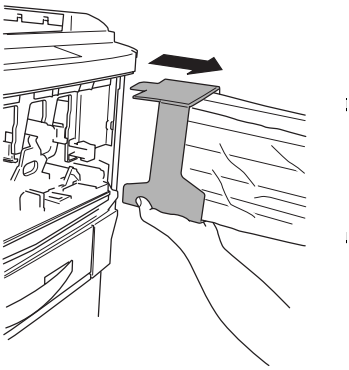
The print unit is lifted over the stopper.



15 Pull your right hand out about 2-1/2 inch (50 mm) to move the print unit into the disposal bag.



16 Pull out the print unit together with its disposal bag.



Attention

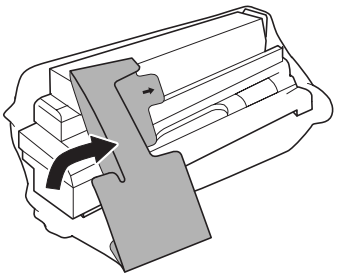
While pulling out the print unit, do not allow toner to spill. Firmly grab the print unit so that it does not fall.

WARNING!

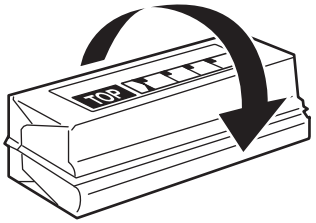
If toner gets in your eyes, immediately flush them with water, and then seek medical attention. Material Safety Data Sheet (MSDS) information can be found at www.minolta-qms.com (click on "24-Hour Online Help").

17 Fold over the opening of the print unit disposal bag while making sure that toner does not spill.

18 When placing the used print unit, which has been removed, on a desk, for example, place it on old newspaper and position it.

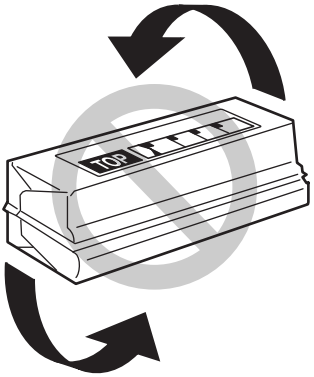


19 Hold the left and right ends of the new print unit, wrapped in the aluminum pack, and then turn the print unit over toward you.

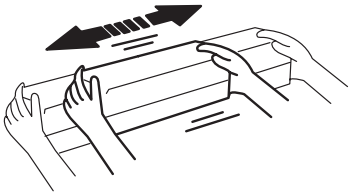


Attention

Do not turn the print unit over to the left or right, otherwise the toner will be unevenly distributed within the print unit.

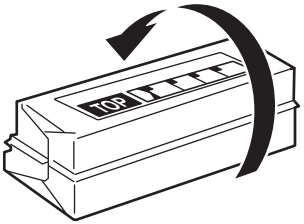


20 Lightly shake the print unit five or six times to the left and right.

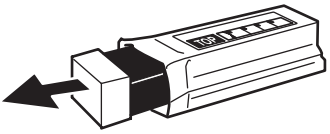


21 Turn the print unit away from you and turn it over.

Check that "Operating Procedure" appears on the front of the aluminum pack.

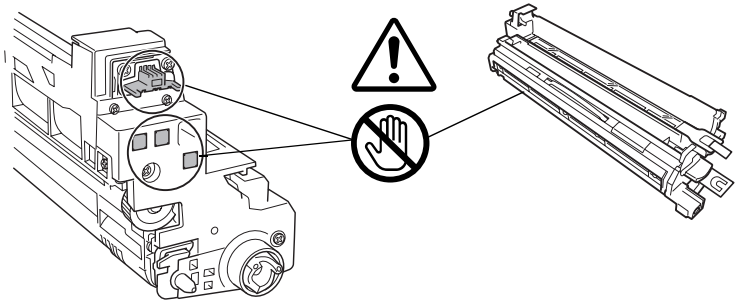


22 Open the aluminum pack, and then remove the print unit from the pack.



Attention

Since the print unit is very sensitive to light, do not remove it from its protective bag until immediately before installation. Be sure to protect it from light and install it in the printer as soon as possible.

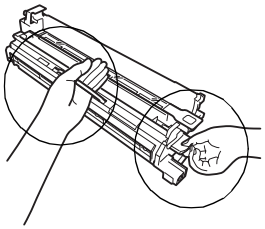


Be careful not to touch or damage the green surface of the OPC. If you need to set the print unit on a flat surface, make sure it is not resting on the OPC.

Do not touch the terminals on the print unit; otherwise, the electronic parts of the print units may be damaged by static electricity from your body.

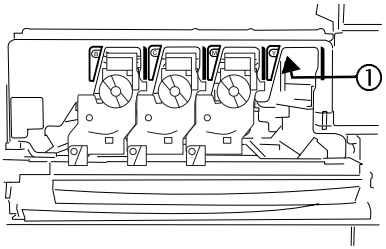
Any damage resulting from mishandling of the print unit will void the warranty of the print unit.

23 Grab the print unit handle with your left hand, hold onto the knob with your right hand.

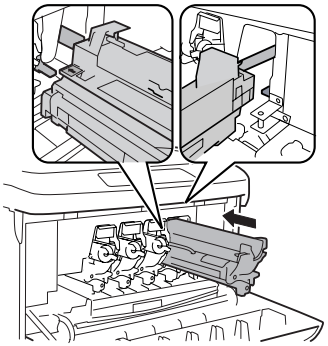


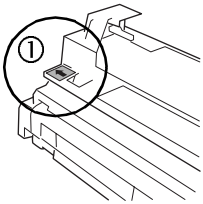
24 Check that the color of the print unit is the same as the color indicated ① in the print unit compartment.

The order of the print unit compartments from right to left is yellow, magenta, cyan, and black.



25 Insert the print unit in the direction indicated by the arrow ① about 4 inch (10 cm) into the compartment.





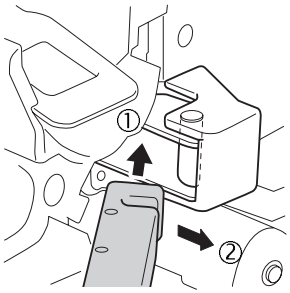
26 Let go of the print unit handle, grab the knob with your left hand, and then slowly slide the print unit as far as possible into the printer.

Do not force the print unit.

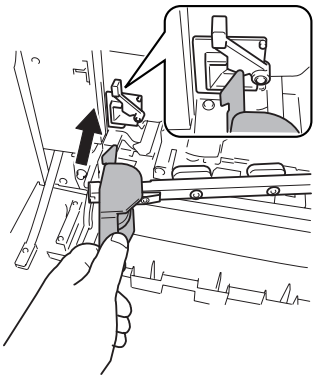
27 Make sure that four positioning pins on the print units enter the positioning holes in the frame of the printer.

28 Attach the print units' lock lever.

Holding the lock lever with both hands, hook the right end onto the shaft ①, and then pull it toward you ②. Make sure that the right end is secured onto the shaft.

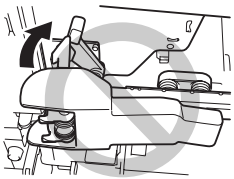


29 With your left hand, pull the handle of the lock lever toward you, and then insert the left end of the lock lever into the holder in the printer.

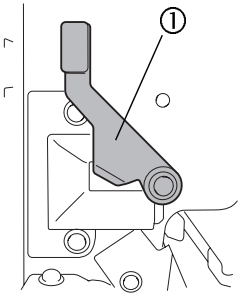


Attention

The handle of the lock lever must be pulled out before attaching the lock lever. If you try attaching the lock lever without first pulling out the handle, the end of the lock lever cannot be correctly inserted.

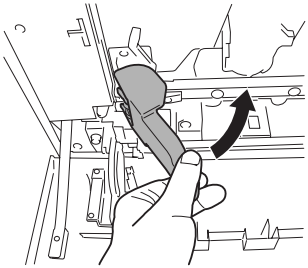


This printer is equipped with a lock lever installation indicator that partially covers the lock lever holder. The lock lever installation indicator ① is designed so that the lock lever holder is revealed when the end of the lock lever is inserted, indicating that the lock lever has been correctly installed. It is not necessary for the user to operate the lock lever installation indicator.



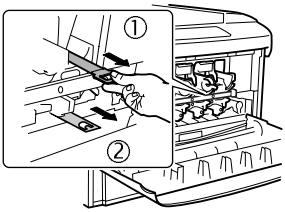
30 Move the handle of the lock lever toward the printer to secure the print units.

If the print units' lock lever and handle are not correctly positioned, the front door cannot be closed.



31 Peel off the tape securing the tab at the top of protective film ①, and then pull the print unit protective film ① straight out.

32 Pull the print unit protective film ② straight out.



Attention

Be careful not to drop any toner from the protective film onto your hands and clothes while pulling it out.

The toner is nontoxic. If you get toner on your hands, wash them in cool water or a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

WARNING!

If toner gets in your eyes, immediately flush them with water, and then seek medical attention. Material Safety Data Sheet (MSDS) information can be found at www.minolta-qms.com (click on "24-Hour Online Help").

33 Place the used print unit (wrapped in the print unit disposal bag) into the box for the new print unit.

WARNING!

Do not throw it into a fire. Toner expelled from the fire may cause burns.

Attention

Contact toner_recycle@minolta-qms.com for recycling or disposal information.

Recyclable Material

34 Install the new toner cartridge.

If you are replacing just the toner cartridge, continue with “Removing an Empty Toner Cartridge” . If you are replacing the toner cartridge as a part of the entire print unit assembly, skip to “Installing a New Toner Cartridge” .

Auto-Image Density Control (AIDC)

The printer automatically pauses for an Auto-Image Density Control (AIDC) calibration cycle (minimum 198 seconds, maximum 241seconds) after the installation of a new print unit. This process is provided to ensure reliable printer operation with optimum output quality.

If you open the door before READY *appears in the message window, the printer stops and repeats the calibration cycle.*

Replacing the Fuser Unit

CAUTION

The fuser can become extremely hot and cause severe burns. Make sure the printer is cool before handling it (approximately 20 minutes).

Attention

Using the wrong voltage fuser in the printer will void the fuser's warranty. The fuser unit's fuse is not replaceable.

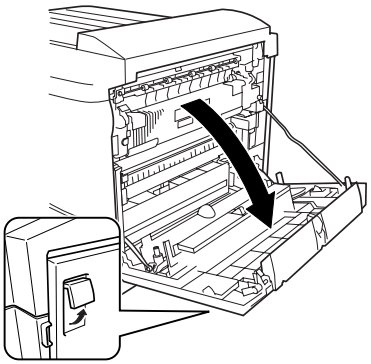
Fuser Life

When the fuser unit is worn out, the message FUSER LOW appears. After the fuser unit is replaced, the printer automatically resets the consumables count.

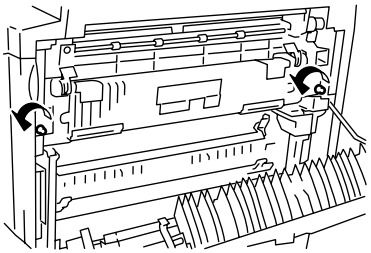
Removing a Used Fuser

1 Turn off the printer, and then wait about 20 minutes before continuing.

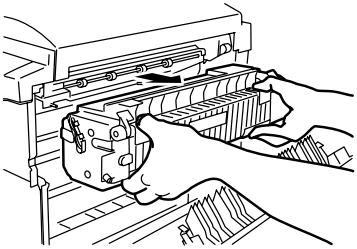
2 Pull up the lock release lever to open the right-side door.



3 Loosen the two shoulder screws, one on each side.



4 Firmly grab the fuser unit with both hands, and then pull it out toward you to remove it.



Attention

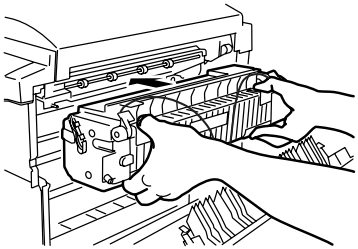
Contact toner_recycle@minolta-qms.com for recycling or disposal information.

Recyclable Material

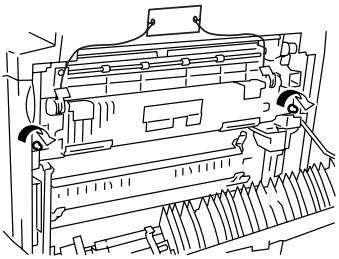
Installing a New Fuser Unit

1 Remove the new fuser unit from its box, and then remove the packing material and packing tape, except the shipping brackets.

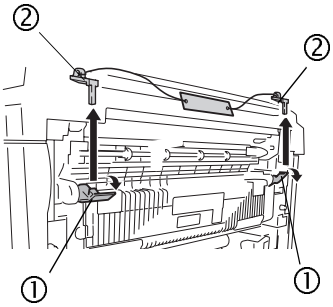
2 Holding the fuser unit with both hands, fully insert it in the printer.



3 Tighten the two shoulder screws, one on each side.



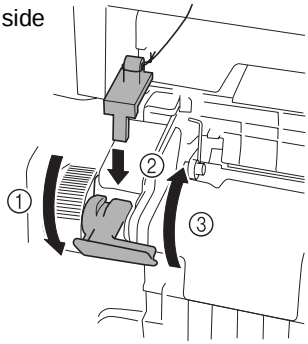
4 Lower the two fuser levers ①, and then pull the tag to remove the shipping brackets ②.



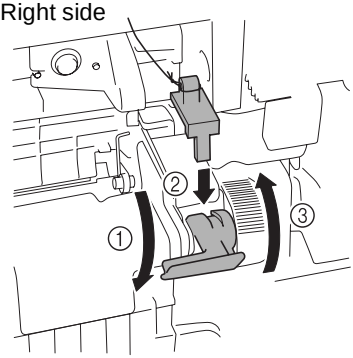
*We **strongly** suggest that you save the shipping brackets in case you ever need to move or ship the printer.*

If the printer is not used (is not turned on) for more than two weeks, lower the fuser levers ①, and then attach the shipping brackets ② to the fuser unit. Move the two fuser levers ① back to their original positions ③.

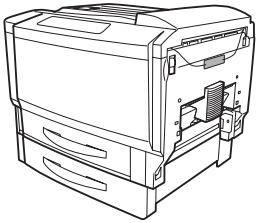
Left side



Right side

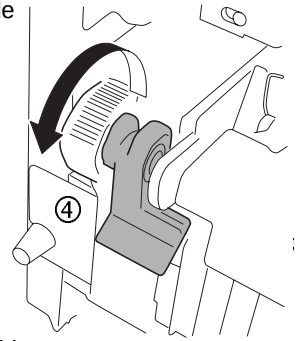


Close the right-side door with the tags on the shipping brackets protruding from the door. If the printer is to be used again, be sure to remove the shipping brackets before use.

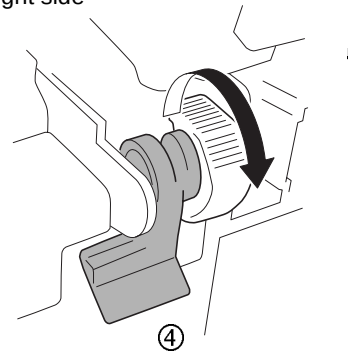


If the shipping brackets were lost, lower the fuser levers ① to their lowest positions ④ before closing the right-side door. Before using the printer again, return the fuser levers ① to their original positions.

Left side



Right side



Attention

If the printer is used without the fuser levers ① returned to their original positions, decreased image fusing may result.

5 Close the right-side door.

6 Place the used fuser unit, which was removed, into the packaging for the new fuser unit.

Replacing Media Pickup and Separator Rollers

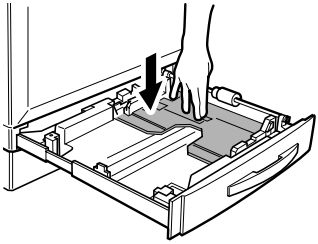
If a problem, such as a media misfeed, occurs in any tray (except the manual feed tray), and the problem cannot be cleared by removing the media or cleaning the media pickup roller, replace the media pickup roller. Be sure to also replace the media separator roller at the same time.

Kit Contents

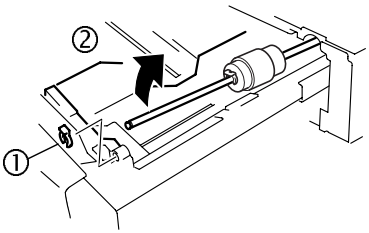
- Media pickup roller
- Media separator roller
- Reinforcing plates (supplied with the media separator roller for Tray 1)

Media Pickup Roller for Trays 1

1. Pull out the tray.
2. Press down on the media-lifting plate until it locks down.



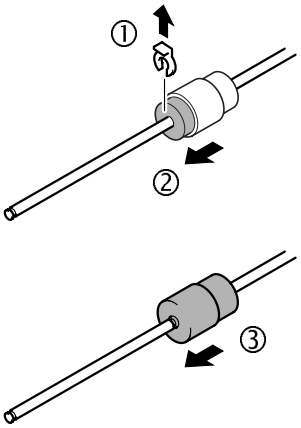
3. Remove the C-clip ① securing the shaft for the media pickup roller (on the right side of the tray).
4. Slide the shaft back ② to remove it from its holder at the front.



5 Remove the C-clip ① securing the media pickup roller.

6 Remove the, collar ② and the media pickup roller ③ from the shaft.

7 Remove the new media pickup roller from its packaging.



8 Place the used media pickup roller in the box and plastic bag that the new roller came in.

WARNING!

Do not throw it into a fire.

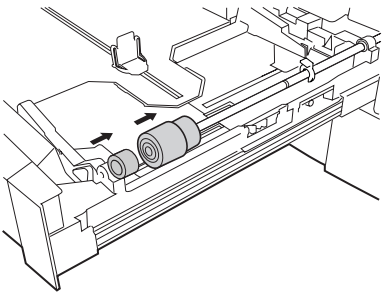
Attention

Contact toner_recycle@minolta-qms.com for recycling or disposal information.

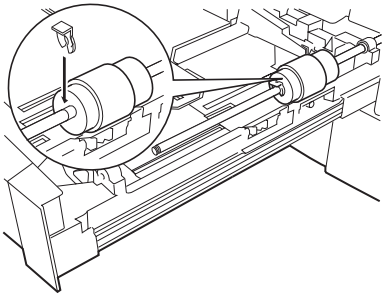
Recyclable Material

9 Slide the collar and the new media pickup roller onto the shaft as far as possible, making sure that the notch in the shaft at the front of the media pickup roller can be seen.

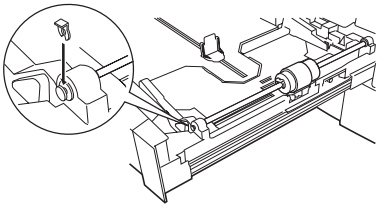
During installation, be careful not to touch the surface of the roller.



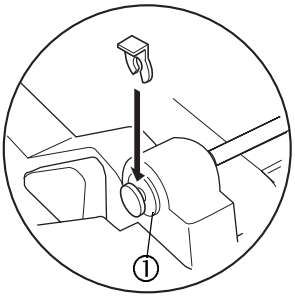
10 Attach the C-clip at the front of the media pickup roller.



11 Insert the shaft into its holder, making sure that the notch in the shaft can be seen, and then attach the C-clip.



You may have to hold the bushing ① on the shaft so that it does not fall off.

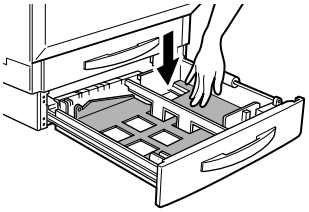


Keep the tray open to replace the media separator roller.

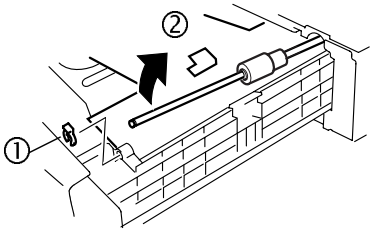
Media Pickup Roller for Trays 2

1 Pull out the tray.

2 Press down on the media-lifting plate until it locks down.



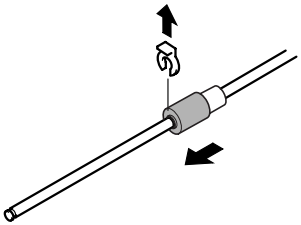
3 Remove the C-clip ① securing the shaft for the media pickup roller (on the right side of the tray).



4 Slide the shaft back ② to remove it from its holder at the front.

5 Remove the C-clip securing the media pickup roller, and then remove the media pickup roller from the shaft.

6 Remove the new media pickup roller from its packaging.



7 Place the used media pickup roller in the box and plastic bag that the new roller came in.

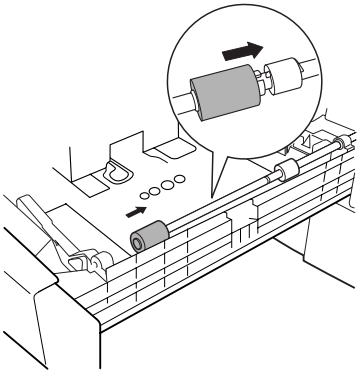
Attention

Contact toner_recycle@minolta-qms.com for recycling or disposal information.

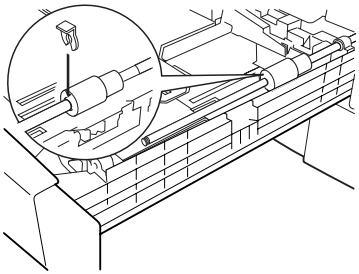
Recyclable Material

8 Slide the new media pickup roller onto the shaft as far as possible, making sure that the notch in the shaft at the front of the media pickup roller can be seen.

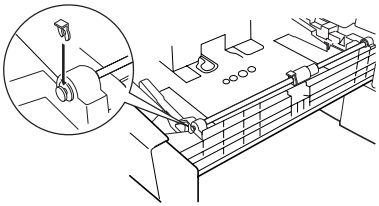
During installation, be careful not to touch the surface of the roller.



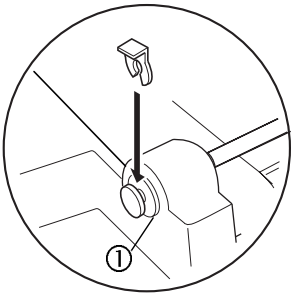
9 Attach the C-clip at the front of the media pickup roller.



10 Insert the shaft into its holder, making sure that the notch in the shaft can be seen, and then attach the C-clip.



You may have to hold the bushing ① on the shaft so that it does not fall off.

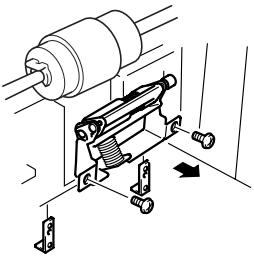


Keep the tray open to replace the media separator roller.

How do I replace the paper separator roller for Tray 1?

The following procedure describes the replacement of the paper separator roller for Tray 1.

1 Remove the two screws from the outer-right side of the tray, as shown, and then remove the paper separator roller.



The paper separator roller is attached to the two reinforcing plates on the opposite side of the screws. When the screws are removed, the reinforcing plates will fall. Therefore, catch the reinforcing plates with your hand when removing the screws.

2 Take out the new paper separator roller.

- Place the used paper separator roller in the packing for the new paper separator roller.

Do not throw away the box and plastic bag that the new paper separator roller was packed in.
They will be reused to pack the used paper separator roller.

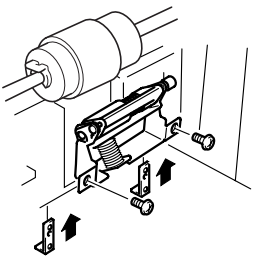
WARNING!

Contact toner_recycle@minolta-qms.com for recycling availability. Do not throw away.

Recyclable Material

3 Attach the new paper separator roller to the tray.

- Before tightening the screws, be sure that the pins on the reinforcing plates are toward the back of the tray.

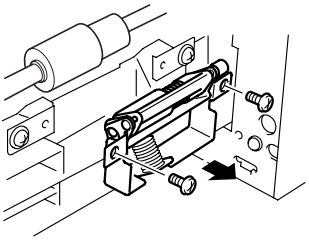


4 Close the tray.

How do I replace the paper separator roller for Tray 2 and optional Tray 3/4?

The paper separator roller should also be replaced at the same time that the paper take-up roller is replaced. The following procedure describes the replacement of the paper separator roller for the standard media tray (Tray 2) and the optional media trays (Trays 3 and 4).

1 Remove the two screws from the outer-right side of the tray, as shown, and then remove the paper separator roller.

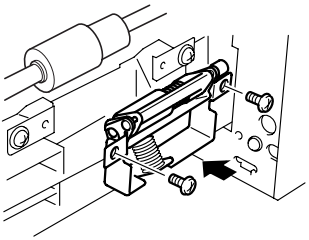


2 Take out the new paper separator roller.

- Place the used paper separator roller in the packing for the new paper separator roller.

3 Attach the new paper separator roller to the tray.

Do not throw away the box and plastic bag that the new paper separator roller was packed in. They will be reused to pack the used paper separator roller.



Attention

Contact toner_recycle@minolta-qms.com for recycling availability. Do not throw away.

Recyclable Material

4 Close the tray.